

**BEFORE THE ENVIRONMENTAL APPEALS BOARD  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C.**

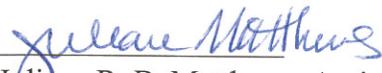
In re:	)	
	)	
Shell Gulf of Mexico, Inc.	)	
Shell Offshore, Inc.,	)	OCS Appeal Nos. OCS 10-01
Frontier Discoverer Drilling Unit	)	through 10-03 & 10-12
	)	
OCS Permit No. R10 OCS/PSD-AK-09-01	)	
OCS Permit No. R10 OCS/PSD-AK-10-01	)	

**SUBMISSION OF CERTIFIED INDEX TO  
THE ADMINISTRATIVE RECORD**

EPA Region 10 (Region 10) hereby submits the Certified Index to the Administrative Record for Region 10's decision to issue the above captioned Outer Continental Shelf /Prevention of Significant Deterioration permits to Shell Gulf of Mexico, Inc., and Shell Offshore, Inc. The Certified Index has been filed with the Clerk electronically by means of CDX. The Administrative Record for OCS/PSD Permit No. R10OCS/PSD-AK-09-01, issued March 31, 2010, and the Administrative Record for OCS/PSD Permit No. R10OCS/PSD-AK-10-01, issued April 9, 2010, have been combined into a single Administrative Record. One complete electronic copy of the Index and of the entire combined Administrative Record, consisting of 6 compact discs, is also enclosed. One DVD containing an identical copy of the contents of the compact discs is also being submitted for ease of reference.

Respectfully submitted,

Dated: June 4, 2010

  
Juliane R. B. Matthews, Assistant Regional Counsel  
EPA Region 10  
206-553-1169 (phone)  
206 553-0163 (fax)

## CERTIFICATE OF SERVICE

I hereby certify that the Certified Index to the Administrative Record for Shell Gulf of Mexico, Inc., and Shell Offshore, Inc., OCS Permit Nos. R10OCS/PSD-AK-09-01 and R10OCS/PSD-AK-10-01, OCS Appeal Nos. 10-01 through 10-03 and 10-12, was filed with the Clerk of the Environmental Appeals Board, along with two complete copies of the Certified Index and the combined Administrative Record in electronic form (consisting of six compact discs and one DVD) at the hand delivery address:

U.S. Environmental Protection Agency  
Clerk of the Board, Environmental Appeals Board  
Colorado Building  
1341 G Street, N.W., Suite 600  
Washington, D.C. 2005

I also certify that a complete copy of the Certified Index and the combined Administrative Record of OCS Permit Nos. R10OCS/PSD-AK-09-01 and R10OCS/PSD-AK-10-01 was sent in electronic (one DVD) format via first class U.S. certified mail to the following persons. An electronic copy of the Certified Index has also been sent to each of these persons via email:

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Dated: June 4, 2010

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**BEFORE THE ENVIRONMENTAL APPEALS BOARD  
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Shell Offshore, Inc.,	)	OCS Appeal Nos. OCS 10-01
Frontier Discoverer Drilling Unit	)	through 10-03 & 10-12
	)	
OCS Permit No. R10 OCS/PSD-AK-09-01	)	
OCS Permit No. R10 OCS/PSD-AK-10-01	)	
	)	

**CERTIFIED INDEX TO  
THE ADMINISTRATIVE RECORD**

As the Director in the Office of Air, Waste and Toxics for the United States Environmental Protection Agency, Region 10, I hereby certify that the attached index (identified in electronic form by the file name "Administrative Record Index\_Revised\_5\_25\_2010.pdf") constitutes the combined Certified Index to the Administrative Record forming the basis for EPA' Region 10's decision to issue the above-captioned Outer Continental Shelf permits to Shell Gulf of Mexico, Inc., and Shell Offshore, Inc.

Date: 6/4/10



Richard Albright, Director  
Office of Air, Waste and Toxics  
Environmental Protection Agency, Region 10

## **Administrative Record Index**

**OCS/PSD Permit R10OCS/PSD-AK-09-01**

**And**

**OCS/PSD Permit R10OCS/PSD-AK-2010-01**

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## Section A: Permit Application Documents and Supplemental Application Materials

EPA Exhibit Number	Date	Document Description
A-1	11/12/2008	Frontier Discoverer Alaska Outer Continental Shelf Exploration Drilling Program, Air Quality Impact Modeling Protocol
A-2	12/11/2008	Letter from Susan Childs, Shell Offshore, Inc. to Richard Albright, EPA regarding Preconstruction Permit Application for Frontier Discoverer Drill Vessel in Chukchi Sea, beyond the 25-mile Alaska Seaward Boundary
A-3	1/15/2009	E-mail from Tim Martin, Air Sciences, Inc. to Herman Wong, EPA regarding the Discoverer Chukchi Source Contribution
A-4	1/26/2009	E-mail from Tim Martin, Air Sciences, Inc. to Herman Wong, EPA regarding the Shell Chukchi Icebreaker Characterization
A-5	2/23/2009	Shell Offshore Inc. Outer Continental Shelf Pre-construction Air Permit Revised Application, Frontier Discover Chukchi Sea – Cover Letter
A-6	2/23/2009	Shell Offshore Inc. Outer Continental Shelf Pre-construction Air Permit Revised Application, Frontier Discover Chukchi Sea – Revised Application
A-7	2/24/2009	Shell Offshore Inc. Outer Continental Shelf Pre-construction Air Permit Revised Application, Frontier Discover Chukchi Sea – Appendices A-G
A-8	3/20/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair and Herman Wong, EPA regarding Chukchi Sea Leases
A-9	4/14/2009	E-mail from Tim Martin, Air Sciences, Inc. to Herman Wong, EPA regarding the Impact Modeling for Warehouse Emissions – Wainwright or Barrow. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-9)
A-10	4/23/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Conference Call on Icebreakers
A-11	4/27/2009	E-mail from Tim Martin, Air Sciences, Inc. to Rodger Steen regarding Volume Sources (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-11)

A-12	5/5/2009	E-mail from Rodger Steen, Air Sciences, Inc. regarding Updated Emissions Discoverer EI with 84-day well site limit removed & updated BACT for FD20
A-13	5/11/2009	E-mail from Thomas Damiana, AECOM to Herman Wong, EPA regarding Wainwright Audit Reports
A-14	5/14/2009	E-mail from Rodger Steen, Air Sciences to Sabrina Pryor regarding Proposed Alternative Handling of Ice Management Fleet, Supply Ship, Nanuq
A-15	5/18/2009	Shell Offshore Inc. – Response to March 12, 2009 2 <sup>nd</sup> EPA Letter of Incompleteness – Revised Preconstruction Permit Application for Frontier Discoverer Drillship in Chukchi Sea, Alaska, beyond 25-mile Alaska Seaward Boundary
A-16	5/19/2009	E-mail from Thomas Damiana, AECOM to Herman Wong, EPA regarding Wainwright March 2009 Summary Report
A-17	5/20/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Hypothetical maximum Ice Management Vessel and joining of ICE engine limits
A-18	5/29/2009	Letter from Susan Childs, Shell to Janis Hastings, EPA regarding Shell Offshore Inc. – Updated Responses to March 12, 2009, 2 <sup>nd</sup> EPA Letter of Incompleteness
A-19	6/1/2009	Shell Offshore Inc. – Supplemental Response – Additional Impact Analysis
A-20	6/5/2009	E-mail from Kirk Wings, ENVIRON to Tim Martin, Air Sciences, Inc. regarding Shell Chukchi and Beaufort Sea PSD Applications
A-21	6/5/2009a	E-mail from Rodger Steen, Air Sciences regarding Updated BACT Analysis for Volatile Organic Compounds sources
A-22	6/9/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding Ice Removal – Disco Bow
A-23	6/16/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Information on Non-Criteria Regulated Air Pollutants with Spreadsheet titled “Discoverer Emissions Chukchi OCS_061509.xls”
A-24	6/16/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair and Herman Wong, EPA regarding Shell Discoverer non-criteria pollutants with attachment titled “Resp to EPA Disco Non-criteria 06162009.pdf”

A-25	6/19/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair and Paul Boys, EPA regarding Discoverer Chukchi Sea - Criteria Emissions in your requested format and Compliance Monitoring Proposal
A-26	6/23/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding Follow-Up Regarding Anchor Handling and Bow Emissions
A-27	6/23/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding PM2.5 Anchor Handling. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-27)
A-28	6/23/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding Modeling Files (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-28)
A-29	6/23/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA Regarding PM10 Discoverer Bow (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-29)
A-30	6/23/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding PM2.5 Discoverer Bow (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-30)
A-31	6/24/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Information on Resupply Ship
A-32	6/26/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding Request for Information on Discoverer +/-15 degree Re-Orientation
A-33	6/30/2009	E-mail from Kirk Wings, ENVIRON to Pat Nair, EPA regarding Anchor Setting Emissions
A-34	7/6/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Herman Wong, EPA regarding Associated Emissions
A-35	7/6/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Title VI Potential to Emit
A-36	7/12/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair, EPA regarding Questions on D399 Anticipated Compliance Conditions
A-37	7/13/2009	E-mail from Kirk Wings, ENVIRON to Herman Wong, EPA regarding Ice Removal – Discoverer Bow

A-38	7/15/2009	E-mail from Kirk Winges, ENVIRON regarding Anchor Setting Emissions for PM 2.5 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-38)
A-39	7/15/2009	E-mail from Kirk Winges, ENVIRON regarding Anchor Setting Emissions for PM 10 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-39)
A-40	7/16/2009	E-mail from Thomas Damiana, AECOM to Herman Wong, EPA regarding Wainwright Near-Term Monitoring Program May 2009 Data Summary
A-41	7/16/2009	E-mail from Kirk Winges, ENVIRON to Herman Wong, EPA regarding Bow Washing Emissions for PM 2.5 and PM 10 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-41)
A-42	7/17/2009	E-mail from Tim Martin, Air Sciences, Inc. to Herman Wong, EPA regarding Bow Washing Emissions for PM 2.5 and PM 10
A-43	7/17/2009	E-mail from Tim Martin, Air Sciences, Inc. to Herman Wong, EPA regarding Background Concentrations (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-43)
A-44	8/10/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Janis Hastings, EPA regarding Responses to draft disco/Chukchi permit – the largest issues
A-45	8/12/2009	E-mail from Kirk Winges, ENVIRON to Herman Wong, EPA Regarding Example Model Runs (attachments not delivered)
A-46	8/12/2009	E-mail from Kirk Winges, ENVIRON to Herman Wong, EPA Regarding Request for a Modification on the Discoverer Location Restrictions
A-47	8/12/2009	E-mail from Susan Childs, Shell to Julie Vergeront, EPA regarding SGOMI and signing authority
A-48	8/13/2009	E-mail from Kirk Winges, ENVIRON to Herman Wong, EPA Regarding Example Model Runs. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-48)
A-49	8/13/2009	E-mail from Kirk Winges, ENVIRON to Dave Bray, EPA regarding Geometry
A-50	8/13/2009	E-mail from Kirk Winges, ENVIRON to Herman Wong, EPA Regarding Example Model Runs

A-51	9/17/2009	Letter from Susan Childs, Shell to, EPA re: Shell Gulf of Mexico Inc. Comments on August 2009 Proposed Discoverer/Chukchi OCS/PSD Permit to Construct. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-51)
A-52	10/8/2009	Letter from Susan Childs, Shell, to EPA, re: Shell Gulf of Mexico Inc. Comments on the August 2009 Proposed Discoverer/ Chukchi OCS/PSD Permit to Construct (permit tracked to show Shell's requested changes)
A-53	10/19/2009	E-mail and attachments from Rodger Steen, Air Science, Inc. to Pat Nair, EPA regarding Clarifications needed on Icebreaker #2
A-54	10/20/2009	Email from Kirk Lilley with letter from Susan Childs, Shell regarding Shell Gulf of Mexico Supplemental Additional Comments on the August 2009 Proposed Discoverer/Chucky OCS/PSD Permit to Construct
A-55	10/20/2009	Rodger G. Steen e-mail and attached letter from Shell Gulf of Mexico, Inc. Re: Shell Gulf of Mexico, Inc. Supplemental Comments on the August 2009 Proposed Discover/Chukchi OCS/SD Permit to Construct
A-56	11/13/2009	Document from Shell provided to EPA Re: Conceptual Plan: Potential Re-Proposal of Shell Chukchi Draft PSD Permit
A-57	11/18/2009	E-mail from Kirk Wings, ENVIRON regarding Kilabuck
A-58	11/19/2009	E-mail from Kirk Wings, ENVIRON to Pat Nair, EPA regarding Scale Idea
A-59	11/23/2009	Letter from Susan Childs, Shell to Janis Hastings, EPA, re: Supplemental Application Support Materials in Response to November 12, 2009 Meeting
A-60	11/25/2009	E-mail from Kirk Wings, ENVIRON and attachments regarding Supplemental BACT analysis and Small Engine Stack Testing
A-61	12/2/2009	ENVIRON Revised CO Analysis.(Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-61)
A-62	12/7/2009	Wainwright 4th Monitoring Qtr Summary. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: A – Permit Application\A-62)
A-63	12/9/2009	Letter from Susan Childs, Shell to Rick Albright, EPA Regarding Shell Gulf of Mexico Inc. Supplement to Application for Discover/Chukchi OCS/PSD Permit

A-64	12/10/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Pat Nair regarding Info on new engines
A-65	12/11/2009	E-mail from Kirk Wings, ENVIRON to Paul Boys, EPA regarding edited BACT with attachment, "Diesel Engine Best Available Control Technology Analysis, Frontier Discoverer Drill Ship"
A-66	12/13/2009	Letter from Susan Childs, Shell to Rick Albright, EPA Regarding Shell Gulf of Mexico Inc. Supplement to Application for Discoverer/Chukchi OCS/PSD Permit with Attachments A-I
A-67	12/16/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Dave Bray, EPA regarding Wainwright PM2.5 Analysis with Attachments (Wainwright Precipitation and Wind Statistics)
A-68	12/18/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Dave Bray, EPA regarding Discoverer Incinerator Emissions
A-69	12/18/2009	E-mail from Rodger Steen, Air Sciences, Inc. to Dave Bray, EPA regarding PM 2.5 & PM 10 Wainwright Statistics
A-70	12/22/2009	E-mail from Eric Hansen, ENVIRON to Paul Boys, EPA regarding Supplemental BACT analyses for CO emissions from MLC and logging winch engines (with attachment: Memorandum from ENVIRON regarding Shell Chukchi Sea PSD Permit and data)

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**Section AA. Permit Application Documents and Supplemental Application Materials (cont.)**

EPA Exhibit Number	Date	Document Title
AA-1	1/18/10	Letter from Susan Childs, Shell Offshore, Inc., to Richard Albright, EPA, re: Permit Application (Revised) for Frontier Discoverer Drill Vessel in Beaufort Sea Att. 1: Outer Continental Shelf Pre-Construction Air Permit Application and Appendices

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**Section B: Guidance, Background Information and Technical Analysis**

EPA Exhibit Number	Date	Document Description
B-1	1970	Workbook of Atmospheric Dispersion Estimates, No. AP-26 (1970)
B-2	06/1977	U.S. EPA, Atmospheric Emissions From Offshore Oil and Gas Development and Production. EPA-450/3-77-026. Office of Air Quality Planning and Standards. RTP, North Carolina.
B-3	10/1977	Guidelines for Air Quality Maintenance Planning and Analysis, Volume 10 (Revised) – Procedures for Evaluating Air Quality Impact of New Stationary Sources
B-4	05/1978	Auer, Jr., A.H. Correlation of Land Use and Cover with Meteorological Anomalies, Journal of Applied Meteorology (pp. 636-643).
B-5	9/28/1982	Memorandum from Kathleen M. Bennett to Assistant Administrator for Air, Noise and Radiation Regional Administrators, Regions I-X, Re: Policy on Excess Emissions During Startup, Shutdown, Maintenance, and Malfunctions
B-6	4/9/1985	U.S. Patent “Quick Disconnect/Connect Mooring Method and Apparatus for Turret Moored Drillship.” Patent Number: 4,509,448.
B-7	5/1/1987	U.S. EPA. Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD). EPA-450/4-87-007. Office of Air Quality Planning and Standards, RTP, NC.
B-8	11/19/1987	Memorandum from Gary McClutchen, EPA, Michael Trutna, EPA, to J. David Sullivan, EPA, Re: Request for Determination on Best Available Control Technology (BACT) Issues – Ogden Martin Tulsa Municipal Waste Incinerator Facility
B-9	1989	Report of the Senate Committee on Environment and Public Works on S. 1630
B-10	10/1990	U.S. EPA. Draft New Source Review Workshop Manual, Prevention of Significant Deterioration and Nonattainment Area Permitting. <a href="http://www.epa.gov/ttn/nsr/gen/wkshpman.pdf">http://www.epa.gov/ttn/nsr/gen/wkshpman.pdf</a>
B-11	12/5/1991	Outer Continental Shelf Air Regulations, Proposed Rule, 56 Fed. Reg. 63774
B-12	7/22/1992	Memorandum to Docket A-90-33; Docketing of detailed Responses to Comments on the Part of 70 Operating Permit Regulations

B-13	9/4/1992	Outer Continental Shelf Air Regulations, Final Rule, 57 Fed. Reg. 40792
B-14	10/1992	U.S. EPA. Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised, EPA-454/R-92-019. Office of Air Quality Planning and Standards, RTP, NC.
B-15	1/28/1993	Memorandum from John B. Rasnic, Director, Stationary Source Compliance Division Office of Air Quality Planning and Standards to Linda M. Murphy, Director, Air, Pesticides and Toxics Management Division Region 1, Re: Automatic or Blanket Exemptions for Excess Emissions During Startup, and Shutdowns Under PSD
B-16	09/1995	U.S. EPA. User's Guide for the Industrial Source Complex (ISC3) Dispersion Models, Volume I, User Instructions, EPA-454/B-95-003a. Office of Air Quality Planning and Standards, Emissions Monitoring and Analysis Division, RTP, NC.
B-17	10/1996	AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Volume 1, Stationary Point and Area Sources, Chapter 1, Section 1.3, Chapter 2, Section 2.1 and 2.2, and Chapter 3, Sections 3.3 and 3.4. See also <a href="http://www.epa.gov/ttn/chief/ap42/index.html">http://www.epa.gov/ttn/chief/ap42/index.html</a> for the Background Information and Related Information for these Sections
B-18	8/14/1997	Conditional Test Method (CTM-027) Procedures for Collection and Analysis of Ammonia in Stationary Sources
B-19	2/24/1998	Letter from John S. Seitz, EPA, to Gustave Von Bodungen, Louisiana Department of Environmental Quality.
B-20	3/19/1998	Letter from John S. Seitz, EPA, to Kevin Tubbs, American Standard.
B-21	05/1998	U.S. EPA. Locating and Estimating Air Emissions from Sources of Lead and Lead Compounds, EPA-454/R-98-006. May 1998.
B-22	8/1/1998	Regulatory Announcement, New Emission Standards for Nonroad Diesel Engines, EPA420-F-98-034
B-23	11/17/98	Memorandum from Eric Schaeffer, Director, Office of Regulatory Enforcement, to Addressees, Re: Guidance on the Appropriate Injunctive Relief for Violations of Major New Source Review Requirements
B-24	9/20/1999	Memorandum from Steven A. Herman, Assistant Administrator for Enforcement and Compliance Assurance; Robert Perciasepe, Assistant administrator for Air and Radiation to Regional Administrators, Regions I-X, Re: State Implementation Plans:

		Policy Regarding Excess Emissions During Malfunctions, Startup, and Shutdown
B-25	01/2000	Air Quality Construction Permit, ARCO Alaska Inc. and Andarko Petroleum Corp, – ADEC Permit Number 9973-AC017
B-26	04/2001	Clean Air Act Stationary Source Compliance Monitoring Strategy April 2001
B-27	2/13/2002	Application of the thermal DeNOx process to diesel engine DeNOx: an experimental and kinetic modeling study, C. M. Nam and B. M. Gibbs, Department of Fuel and Energy, The University of Leeds, Leeds, UK
B-28	4/19/2002	Letter from Stephen Greig at Venoco Inc. to Eric Peterson, Santa Barbara County APCD and Cy Oggins, CA State Lands Commission. Subject: Platform Holly Drilling Mud Degasser
B-29	05/2002	U.S. EPA. Health Assessment Document for Diesel Engine Exhaust, EPA/600/8-90/057F. May 2002.
B-30	06/2003	U.S. EPA. AERMOD: Latest Features and Evaluation Results, EPA-454/R-03-003. Office of Air Quality Planning and Standards, Emissions Monitoring and Analysis Division, RTP, NC.
B-31	06/2003	Stationary Diesel Generators in the Northeast. An Initial Assessment of the Regional Population. Control Technology Options and Air Quality Policy Issues.
B-32	4/21/2004	U.S. EPA.2004b. User’s Guide to the Building Profile Input Program, EPA-454/R-93-038. Office of Air Quality Planning and Standards, RTP, NC.
B-33	8/26/2004	U.S. EPA.2004a. ISC3 with PRIME Building Downwash – ISC3P, Version 04269. Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina (RTP, NC).
B-34	11/23/2004	Verification of Ship Emission Estimates with Monitoring Measurements to Improve Inventory and Modeling, Final Report. James J. Corbett P.E. Ph.D.
B-35	12/2004	Economic Study of the Burger Gas Discovery, Chukchi Shelf, Northwest Alaska
B-36	8/8/2005	Prevention of Significant Deterioration Permit to Construct R10PSD-OR-05-01, Diamond Wanapa I.L.P.
B-37	11/9/2005	Revision to the Guideline on Air Quality Models Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions; Final Rule, 70 Fed. Reg. 68218 (11/09/05)

B-38	11/18/2005	Western Regional Air Partnership, Offroad Diesel Retrofit Guidance Document, Volume 2, Retrofit Technologies, Applications and Experience, Emission Advantage, LLC
B-39	2007	Manual for CAT C15 For Fleet and Line Haul Performance
B-40	3/30/2007	Air Quality Control Minor Permit No. R10OCS-AK-07-02, Approval to Construct, Shell Offshore, Inc. Frontier Discoverer Drilling Unit
B-41	3/30/2007	Air Quality Control Minor Permit No. R10OCS-AK-07-12, Approval to Construct, Shell Offshore, Inc. Kulluk Drilling Unit
B-42	05/2007	EPA 420-R-07-005, "Diesel Retrofit Technology: An Analysis of the Cost-Effectiveness of Reducing Particulate Matter and Nitrogen Oxides Emissions from Heavy-Duty Nonroad Diesel Engines Through Retrofit"
B-43	8/30/2007	Prevention of Significant Deterioration Permit to Construct, Deseret Power Electric Cooperative Bonanza Power Plant – Utah, Response to Public Comments
B-44	9/28/2007	EPA Office of Transportation and Air Quality, Clean Construction USA, Retrofit Strategies, <a href="http://www.epa.gov/otag/diesel/construction/strategies.htm">http://www.epa.gov/otag/diesel/construction/strategies.htm</a>
B-45	10/9/2007	Letter from Steven C. Riva, Region 2 EPA, To Leon Sedefian, Air Pollution Meteorologist, New York State Department of Environmental Conservation, Re: Ambient Air for the Offshore LNG Broadwater Project
B-46	01/2008	Diesel Engine Retrofits in the Construction Industry: A How To Guide, Massachusetts Department of Environmental Protection
B-47	2/18/2008	Effects of Envirofuels DFC on a Land Drilling Rig, Envirofuels, Houston, Texas
B-48	5/14/2008	BACT Cost Effectiveness Threshold- San Joaquin Valley Unified Air Pollution Control District, Final Staff Report: Update to BACT Cost Effectiveness Thresholds
B-49	6/12/2008	Memorandum from Dan Meyer to File Regarding Volatile Organic Compound Emissions Associated with Shallow Gas Diversions and Drilling Mud Returns – Kulluk Drilling Rig
B-50	6/12/2008	Response to Comments, Kulluk Minor Source Statement of Basis, Air Quality Control Minor Permit No. R10OCS-AK-07-012, Approval to Construct, Shell Offshore, Inc. Kulluk Drilling Unit (June 18, 2008)

B-51	6/18/2008	Alaska OCS Air Quality Control Minor Permit, Approval to Construction, Kulluk Drilling Unit, EPA Region 10 Permit No. R10OCS-AK-07-01
B-52	8/20/2008	ADEC Standard Permit Condition III – Excess Emissions and Permit Deviation Reports, Permit Conditions for Air Quality Permits, Adopted by reference in 18 AAC 50.346
B-53	8/20/2008	ADEC Standard Permit Condition VII –Operating Reports, Permit Conditions for Air Quality Permits, Adopted by reference in 18 AAC 50.346
B-54	12/18/2008	Memorandum from EPA Administrator Stephen L. Johnson to Regional Administrators re: EPA’s Interpretation of Regulations that Determine Pollutants Covered by Federal Prevention of Significant Deterioration (PSD) Permit Program
B-55	12/31/2008	Federal Register Notice re: EPA’s Interpretation of Regulations that Determine Pollutants Covered by Federal Prevention of Significant Deterioration (PSD) Permit Program, 73 Federal Register 80300
B-56	2009	Clean Air Systems, The Clean Air Permit™ Filter System Brochure dated 2009
B-57	2009	Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and engine Oil by Ultraviolet Fluorescence.
B-58	2009	Data: ISC3P Model Setup
B-59	2009	Data: SB.data O. SRN
B-60	2/17/2009	Letter from EPA Administrator Lisa P. Jackson to David Bookbinder, Sierra Club, re: Amended Petition for Reconsideration of December 18, 2008 Johnson Memo
B-61	4/1/2009	Emission Standards: USA Nonroad Diesel Engines, <a href="http://www.dieselnet.com/standards/us/nonroad.php">http://www.dieselnet.com/standards/us/nonroad.php</a>
B-62	4/1/2009	Emission Standards: USA Stationary Diesel Engines, <a href="http://www.dieselnet.com/standards/us/stationary.php">http://www.dieselnet.com/standards/us/stationary.php</a>
B-63	4/10/2009	ASTM-D975-09 Standard Specification for Diesel Fuels Oils,
B-64	4/15/2009	Other Test Method - 27 - Determination of PM10 and PM 2.5 Emission from Stationary Sources

B-65	4/15/2009	Other Test Method 28 - Dry Impinger Method for Determining Condensate Particulate Emissions from Stationary Sources
B-66	4/17/2009	Mitsubishi Power Systems Selective Catalytic Removal System, <a href="http://www.mpshq.com/products_scr.htm">http://www.mpshq.com/products_scr.htm</a>
B-67	4/17/2009	Institute of Clean Air Companies, NOx Control Technologies, Selective Catalytic Reduction (SCR),
B-68	4/24/2009	Federal Register Notice re: Proposed Endangerment and Cause or Contribute Findings for Greenhouse Gases, 78 Federal Register 18886
B-69	4/24/2009	Public Notice, EPA Terminates Minor Source Air Permitting Activity for Shell Kulluk
B-70	6/12/2009	EPA Office of Transportation and Air Quality, Diesel Retrofit Technology Verification, Verified Technologies,
B-71	6/12/2009	EPA Memo Re: Cost effectiveness estimates of CDPF for the compressor engine and the generator engines
B-72	06/14/2009	Anchorage Daily News – Point Lay Celebrates first Whale in 72 Years
B-73	06/21/2009	Petroleum News Vol. 14 No. 25 – New ship to Support Shell drilling
B-74	06/28/2009	Petroleum News Vol. 14 No. 26 – Revised Polar Bear Stocks out for Review
B-75	7/2/2009	Memo from Dave Bray to Rick Albright and Janis Hastings, “Implementing PSD Baseline Date, Baseline Areas, and Baseline Concentrations on the Outer Continental Shelf”
B-76	7/31/2009	Memo from Chris Hall, EPA, to Herman Wong, EPA, re: Wainwright Monitoring Data
B-77	08/20/2009	Marten Law Group: retreat of Arctic Ice Pack Poses Both Challenges and Opportunities in the American Arctic
B-78	08/23/2009	Petroleum News Vol. 14 No. 34 – EPA: Shell Air Permits Have Top Priority and Going Major on the OCS: Shell Opts for major Air Quality Permits for the Alaska Offshore Drilling Operations

B-79	9/10/2009	Oil & Gas Journal – Beaufort Sea Ruling Part of Bigger Alaska OCS Picture
B-80	09/13/2009	Petroleum News Vol. 14 No. 37 – Parnell Backs Alaska OCS Development
B-81	9/15/2009	Discoverer Data: ISC3P
B-82	9/15/2009	Discoverer Data: CO Start
B-83	9/22/2009	Memo from Gina McCarthy, Assistant Administrator, EPA-HQ, to Regional Administrators, Regions I-X, re: Withdrawal of Source Determinations for Oil and Gas Industries
B-84	09/28/2009	Email RE: KTUU Shell Oil Permit Hearing Draws Questions
B-85	10/7/2009	Proposed rule; reconsideration: Prevention of Significant Deterioration (PSD): Reconsideration of Interpretation of Regulations That Determine Pollutants Covered by the Federal PSD Permit Program, 74 Federal Register 51535
B-86	10/23/2009	Input File Options and Criteria - Deadhorse
B-87	11/01/2009	Petroleum News Vol. 14 No. 44 – Preparing and Planning for the OCS and Watching the Offshore Drilling From Afar
B-88	11/04/2009	Anchorage Daily News – Facing Environmental Lawsuits, Shell Reconsiders Arctic Drilling
B-89	11/08/2009	Petroleum News Vol. 14 No. 45 – Watching for the Ice in the Chukchi and Drilling Mud-Line Cellars for OCS Drilling
B-90	11/16/2009	Clēaire LONESTAR™ Quick Specs, CARB Verification letter dated December 23, 2008 and Lonestar™ Off-Road Verified Engine Family List dated January 2009.
B-91	11/17/2009	Anchorage Daily News – Icy Oil Spill easier to Clean, Scientists Say
B-92	11/20/2009	Oil & Gas Journal – Senate Committee Members Trade Barbs at OCS Technology Hearing

B-93	11/20/2009	Juneau Empire – Obama Delays Alaska Drilling Decision
B-94	11/25/2009	Model verification files created by Herman Wong, EPA on 11/25/2009. Folder includes: 3_Final Disco Impacts 4_Final Ice Management Impacts (Files not printed. See Chukchi Administrative Record Compact Disc at the following file path: B - Guidance, Background Information and Technical Analysis\B-94)
B-95	12/2009	Environmental Assessment, Shell Gulf of Mexico, Inc. 2010 Exploration Drilling Program Burger, Crackerjack, and SW Shoebill Prospects Chukchi Sea Outer Continental Shelf, Alaska prepared by MMS
B-96	12/04/2009	New York Times – In Alaska’s Far North, Two Cultures Collide
B-97	12/07/2009	Oil & Gas Journal – EPA’s GHG Endangerment Finding Set Stage for Regulations
B-98	12/14/2009	Verified Nonroad Engine Technologies, EPA Office of Transportation and Air Quality - Verified Nonroad Engine Retrofit Technologies.
B-99	12/14/2009	Potential Retrofit Technologies, EPA Office of Transportation and Air Quality - Summary of Potential Retrofit Technologies.
B-100	12/14/2009	Verified Technologies, EPA Office of Transportation and Air Quality – Verified Retrofit Technologies
B-101	01/2010	18 AAC 50.345 to 50.346 (2010)
B-102	01/03/2010	Petroleum News Vol. 15 No. 1 – Shell Goes For Reduced OCS Footprint
B-103	1/6/2010	Federal Register, Dept of Homeland Security, Coast Guard, Safety Zone; FRONTIER DISCOVERER, Outer Continental Shelf Drillship, Chukchi and Beaufort Sea, Alaska – 75 Federal Regulation 803
B-104	1/7/2010	Memorandum from Chris Hall, EPA to Herman Wong, EPA and Mary Portanova, EPA regarding Deadhorse Air Monitoring Data Review – October 23 through December 25, 2009
B-105	1/7/2010	Memorandum from Chris Hall, EPA to Herman Wong, EPA and Mary Portanova, EPA regarding Wainwright Air Monitoring Data Review – July 1 through October 31, 2009

B-106	01/14/2010	Shell Strives for Smaller Arctic Offshore Footprint
B-107	01/20/2010	20100120 McClatchy Newspaper Alaska Sen. Murkowski Attempt to Curb EPA Draws Criticism
B-108	01/22/2010	Activists Question Stringency of New EPA PSD Permit for Shell Offshore
B-109	2/17/2010	OSC/PSD Permit to Construct, Permit Number: R10OCS/PSD-AK-2010-01, Discoverer Drilling Unit (Beaufort), Shell Offshore, Inc. (proposed)
B-110	2/19/2010	Federal Register, Department of Interior, MMS, Environmental Documents Prepared for Proposed Mineral Exploration on the Alaska Outer Continental Shelf, 75 Fed. Reg. 7515
B-111	02/21/2010	Petroleum News Vol. 15 No. 8 – Beaufort Air Permit; EPA Issues Proposed Air Quality Permit for Shell’s Beaufort Sea Drilling and Continuing Challenge to Arctic OCS Drilling
B-112	03/2010	Arctic NPDES General Permit (AKG-28-0000), Information Sheet, March 2010
B-113	03/04/2010	Inside EPA - Targeting EPA’s Permitting Authority
B-114	3/10/2010	Memorandum from Paul Boys, EPA, to Pat Nair, EPA, Re: Review of the Shell Frontier Discoverer Drillship Stack Test Plan
B-115	3/11/2010	Memorandum from Paul Boys, Environmental Engineer Investigations and Engineering Unit, OEA to File, Re: Cost Effectiveness Estimates for HPU Engine Replacement on the Frontier Discoverer (Shell Chukchi Sea OCS Permit)
B-116	3/17/2010	Dave Bray notes from March 17, 2010 call with Mark Prettyman, State of Delaware
B-117	3/23/2010	EPA R10 General NPDES Webpage, Oil and Gas, Arctic Oil and Gas General Permits
B-118	3/23/2010	Memorandum from Stephen D. Page, EPA, Re: Modeling Procedures for Demonstrating Compliance with PM2NAAQS
B-119	3/23/2010	Texas Administrative Code, Title 30, §§117.2100, .2103, .2110, .2125, .2130, .2135, .2145.

B-120	3/31/2010	Memorandum from Christopher Hall, Region 10 EPA, to Herman Wong and Mary Portanova, EPA, Re: Wainwright Particulate Matter Data Review – July 1 through December 7, 2009
B-121	3/31/2010	Memorandum from Christopher Hall, Region 10 EPA, to Herman Wong and Mary Portanova, EPA, Re: Wainwright Air Monitoring Data Review – Nov. 1 through Dec. 7, 2009
B-122	4/2/2010 (signed on 3/29/10)	Reconsideration of Interpretation of Regulations That Determine Pollutants Covered by Clean Air Act Permitting Programs; Final Rule, 75 Fed. Reg. 17004 (signed March 29, 2010; published on April 2, 2010)
B-123	No Date	Conditional Test Method 038 - "Measurement of Ammonia Emissions from Highway, Nonroad, and Stationary Use Diesel Engines by Extractive Fourier Transform Infrared (FTIR) Spectroscopy" <a href="http://www.epa.gov/tnn/emc.ctm.html">http://www.epa.gov/tnn/emc.ctm.html</a>
B-124	No Date	Summary Table: Deadhorse MQO Development - Final

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**Section BB. Guidance, Background Information and Technical Analysis**

EPA Exhibit Number	Date	Document Title
BB-1	12/5/1991	Fed. Reg. Vol. 58, No. 234, Proposed Rule, 40 CFR Part 55 [FLR 4035] Outer Continental Shelf Air Regulations, Proposed Rule
BB-2	9/04/1992	Fed. Reg. Vol. 57, No. 173, Rules and Regulations, 40 CFR Part 55 [FRL-4200-9] Outer Continental Shelf Air Regulations, Final Rule
BB-3	2010	EPA ANWR-VISCREEN Modeling
BB-4	2009	Nuiqsut Q3 Alaska Photo
BB-5	7/2009	Nuiqsut July 2009 PM2.5 Hourly Values
BB-6	7/05/2009	Petroleum News Vol. 14 No. 27 – Beaufort Sea Drilling Plan Appeal Ends
BB-7	8/11/2009	Oil and Gas Journal – Shell’s Plan for Beaufort Sea Advances
BB-8	8/16/2009	Petroleum News Vol. 14 No. 33 – MMS: Shell’s New Beaufort Plan Complete
BB-9	8/30/2009	Petroleum News Vol. 14 No. 35 – Court Upholds Beaufort Sale Decision
BB-10	9/27/2009	Petroleum News Vol. 14 No. 39– New Comment Deadline for Beaufort Plan
BB-11	10/19/2009	Anchorage Daily News Article: Shell Gets Conditional OK for Beaufort Sea Drilling Plan
BB-12	10/20/2009	Oil and Gas Journal – MMS Conditionally Approve Shell’s Beaufort Sea Exploration Plan
BB-13	10/25/2009	Petroleum News Vol. 14 No. 43 OK for Shell Plan: MMS Approves Beaufort Sea Drilling if Permitting Requirements are Met

BB-14	11/02/2009	NBC KUTT News – Barrow Wary of Shell’s Upcoming Exploration of Beaufort Sea
BB-15	11/15/2009	Petroleum News Vol. 14 No. 46 – Beaufort Leasing in State’s ‘Best Interest’
BB-16	12/15/2009	Offshore Drilling: Enviro, Native Groups Sue Over Beaufort Sea Plan
BB-17	12/20/2009	Petroleum News Vol. 14 No. 51 – Groups Sue to Stop Beaufort Sea Drilling and NSB Not Part of Suits Against MMS
BB-18	12/27/2009	Petroleum News Vol. 14 No. 52 – State Intervenes in Beaufort Sea Litigation
BB-19	4/01/2010	Memorandum from Stephen D. Page, Office of Air Quality Planning & Standards, to Air Division Directors & Deputies, Regions I – X, Re: Applicability of the Federal Prevention of Significant Deterioration Permit Requirements to New and Revised National Ambient Air Quality
BB-20	4/07/2010	Memo from Chris Hall, EPA, to Mary Portanova, EPA, re: Badami Air Monitoring Data Review – Aug 15 through Dec 15, 2009
BB-21	4/08/2010	Memo from Christopher Hall, Region 10 EPA, to Mary Portanova, EPA, Re: Badami PM2.5 Data Review Final
BB-22	2/26/2010	Email from Linsey Debell, AECOM, to Herman Wong, EPA re: Shell Beaufort Monitoring Quality Assurance Project Plans

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**Section C: Correspondence and Communication between EPA and Shell (including Shell Contractors)**

EPA Exhibit Number	Date	Document Description
C-1	3/11/2008	Letter from Joyce Kelly, EPA to Susan Childs, Shell, Re: Meteorological Data Collection in the Outer Continental Shelf of the Beaufort Sea for Permitting Purposes
C-2	8/4/2008	Letter from Joyce Kelly, EPA, to Susan Childs, Shell, Subject: Meteorological Monitoring Protocol for Beaufort Sea and Site Visit
C-3	8/25/2008	Email from Pat Nair at EPA to Susan Childs, Shell , Subject: Re: Meeting on August 28 <sup>th</sup> ?
C-4	8/26/2008	Email from Susan Childs, Shell, to Pat Nair, EPA, Regarding Cancelling the Technical Meeting Scheduled on August 28, 2008
C-5	8/27/2008	Email from Herman Wong, EPA, to Susan Childs, Shell, Regarding the Met Monitoring Protocol
C-6	9/11/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: Thanks!!
C-7	9/16/2008	Email from Susan Childs at Shell to Herman Wong, EPA Region 10. Subject: RE: Met Monitoring Protocol
C-8	10/14/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: ConocoPhillips Chukchi Sea Permitting – Wainwright Ambient Monitoring Program
C-9	10/14/2008	Email from Susan Childs at Shell to Herman Wong, EPA Region 10. Subject: RE: Chukchi Sea Buoy Data Collection
C-10	10/15/2008	Email from Wayne Wooster to Warren Horowitz, MMS, and Herman Wong, EPA, re: MMS-EPA-Shell Beaufort Sea Met Monitoring Meeting-Teleconference
C-11	10/22/2008	E-mail from Kyle Parker, Patton Boggs, LLP to Julie Vergeront, EPA regarding White Paper on Fleet Emissions
C-12	10/23/2008	Email from Wayne Wooster at ASRC ENERGY to Herman Wong, EPA Region 10. Subject: RE: Wednesday PM, 22 October 2008 Telephone Call
C-13	10/23/2008	Email from Rodger Steen at Air Sciences to Herman Wong, EPA Region 10. Subject: RE: Wednesday PM, 22 October 2008 Telephone Call (correction)
C-14	11/14/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: ConocoPhillips Chukchi Sea Modeling – Meteorological Data Recovery and Missing Data Substitution

C-15	11/17/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: Conoco-Phillips Wainwright Near-Term Monitoring Station AS-Built Photos
C-16	11/18/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: RE: Conoco-Phillips Wainwright Near-Term Monitoring Station QAPP
C-17	11/21/2008	E-mail from Julie Vergeront, EPA to Kyle Parker, Patton Boggs, LLP regarding Shell Alaska
C-18	11/24/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: ISC-Screen Protocol for Simulation Horizontal and Capped Stacks
C-19	11/25/2008	Email from Thomas Damiana at AECOM to Herman Wong, EPA Region 10. Subject: RE: ISC-Screen Protocol for Simulation Horizontal and Capped Stacks
C-20	12/10/2008	Email from Pat Nair, EPA, to Susan Childs, Shell, Subject: Follow-Up on Our Call This Afternoon
C-21	12/18/2008	E-mail from Susan Childs, Shell to Rick Albright, EPA, regarding Meeting Agenda for December 19, 2009
C-22	12/19/2008	Email from Nancy Helm at EPA Region 10, to Pat Nair, EPA. Subject: Dec. 19 Meeting with Shell
C-23	12/22/2008	Email from Thomas Damiana at AECOM to Christopher Hall, EPA Region 10. Subject: RE: ConocoPhillips Wainwright Near-Term Monitoring Station QAPP
C-24	12/23/2008	Email from Susan Childs, Shell, to Rick Albright, EPA Region 10. Subject: Re: We Received a Hard Copy of the Disco Permit Application
C-25	12/23/2008	Email from Rick Albright, EPA Region 10, to Nancy Helm, EPA Region 10. Subject Re: Dec. 19 Meeting with Shell
C-26	1/6/2009	Email from Pat Nair, EPA to Mark Schindler, Octane, regarding Proposed January 14 Meeting
C-27	1/6/2009	Email from Mark Schindler, Octane, to Pat Nair, EPA. Subject: Re: Proposed January 14 Meeting
C-28	1/16/2009	Letter from Richard Albright, EPA, to Susan Childs, Shell. Regarding the Incompleteness Determination for the Chukchi PSD Permit Application
C-29	1/20/2009	Email from Denise Cortezano, EPA Region 10, to Pat Nair, EPA, Agenda for Jan 20 meeting -Call with Shell
C-30	1/21/2009	Email from Rodger Steen, Air Sciences to Pat Nair, EPA. Subject: Air Sciences Application Update

C-31	1/21/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Air Sciences Application Update
C-32	1/21/2009	Letter from Nancy Helm, EPA Region 10, to Susan Childs, Shell. Acknowledgement of Notification of Municipal Waste Combustion Units Exemption Under NSPS Subpart CCCC (misdated 1/21/2008)
C-33	1/22/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: spreadsheet calcs Attach A, Item B, 9
C-34	1/22/2009	Rodger G Steen, Air Sciences, to Sabrina Pryor, Air Sciences, regarding Shell Disco / Chukchi - Re-formatted emissions information for presentation
C-35	1/23/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Shell OCS and Leasing Stipulations – MMS
C-36	1/26/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Scheduled Conference Call
C-37	1/26/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA,. Subject: Re: Scheduled Conference Call
C-38	1/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Scheduled Conference Call
C-39	1/28/2009	Email from Eric Hansen, ENVIRON to Pat Nair, EPA,. Subject: RE: 04 February 2009 Conference Call
C-40	1/28/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Appendix A Comments
C-41	1/28/2009	Email from Pat Nair, EPA, to Herman Wong, Nancy Helm, Rob Wilson, EPA Region 10. Subject: Call with Rodger this Morning
C-42	1/28/2009 Folder	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA,. Subject: Shell & Cat D399 Stack Test Report (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\C-42)
C-43	2/2/2009	Email from Thomas Damiana, AECOM to Herman Wong, EPA Region 10. Subject: RE: Meteorological and Air Quality Data Collection Programs Representative of the Beaufort Sea
C-44	2/2/2009	Email from Thomas Damiana, AECOM to Herman Wong, EPA Region 10. Subject: RE: Conference Call for 3 February 2008: Meteorological and Air Quality Data Collection
C-45	2/2/2009 Folder	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Plume Ht (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\C-45)

C-46	2/4/2009	Email from Mark Schindler, Octane, to Pat Nair, EPA. Subject: RE: 04 February 2009 Conference Call
C-47	2/4/2009	Email from Mark Schindler, Octane, to Pat Nair, EPA. Subject: Re: 04 February 2009 Conference Call
C-48	2/9/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: Draft minutes of 2/3/09 EPA – Shell conference call
C-49	2/12/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject:
C-50	2/19/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Zipp and Zonen Observation
C-51	2/19/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: ConocoPhillips Preliminary Monitoring Proposal
C-52	2/24/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: FW: Zipp & Zonen Observation 2/23 - 2/25
C-53	2/24/2009	Email from Mark Schindler, Octane, to Nancy Helm, EPA Region 10, regarding Withdrawing the Kulluk Permit
C-54	3/1/2009	Wainwright Near-Term Ambient Air Quality Monitoring Program, First Quarter Data Report, November 2008-January 2009
C-55	3/5/2009	E-mail from Nancy Helm, EPA to Mark Schindler, Octane, regarding EPA Information Needs
C-56	3/10/2009	Email from Mark Schindler, Octane to Herman Wong, EPA Region 10. Subject: RE: Thursday Meeting and Conf. Call
C-57	3/11/2009	Email from Mark Schindler, Octane, to Herman Wong, EPA Region 10. Subject: 3/12 Meeting Agenda
C-58	3/12/2009	Letter from Richard Albright, EPA, to Susan Childs, Shell, regarding Incompleteness Determination for the Chukchi PSD Permit Application Received on February 24, 2009 Attachment 1: Attachment A Attachment 2: Attachment B
C-59	3/13/2009	E-mail from Lance Tolson, Shell, to Julie Vergeront, EPA, regarding Information from Conference Call of 3/10 and Further Information on U.S. Coast Guard Temporary Safety Zone
C-60	3/14/2009	E-mail from Mark Schindler, Octane, to Nancy Helm, EPA, regarding TSZ
C-61	3/18/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: Wainwright Quarterly Monitoring Report

C-62	3/18/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Confirmation of Boise Meeting – Disco/Chukchi Application
C-63	3/21/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Draft Responses to EPA Second Incompleteness Letter
C-64	3/23/2009	Email from Mark Schindler, Octane, to Nancy Helm, EPA. Regarding Fwd: Air Permit Clarification
C-65	4/2/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Data format I the First Quarter Report
C-66	4/2/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Cat D399 Questions
C-67	4/3/2009	Email from Rodger Steen, Air Sciences to Pat Nair, EPA. Subject: Re: Cat D399 Questions
C-68	4/3/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Cat 3304, D343 and C-15 Request
C-69	4/3/2009	Email from Sabrina Pryor, Air Sciences, to Pat Nair, EPA. Subject: Re: Discoverer Stack Test Report –D399
C-70	4/3/2009	Email from Mark Schindler, Octane, to Nancy Helm, EPA. Regarding Air Permit Clarification
C-71	4/6/2009	Letter from Rodger Steen, Air Sciences to Pat Nair, EPA. Subject: RE: Cat 3304, D343 and C-15 Request
C-72	4/6/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Ice Management Fleet Compliance Condition
C-73	4/6/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Cementing/Logging Unit Question
C-74	4/6/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: CDPF Question
C-75	4/7/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: Wainwright Near-Term Monitoring – March 2009 Monitoring Summary
C-76	4/7/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: CDPF Question
C-77	4/8/2009	Email from Paul Boys, EPA, to Rodger Steen, Air Sciences, Re: Shell Discoverer PSD Permit – Additional BACT Information Request
C-78	4/8/2009	Email from Sabrina Pryor, Air Sciences to Pat Nair, EPA. Subject: Re: Cementing/Logging Unit Question

C-79	4/8/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Follow-up on Cat D399, 3304 and D343
C-80	4/8/2009	Shell and R10 Executive Management Coordination Meeting, Air Permitting: Chukchi & Beaufort Sea Exploratory Drilling Agenda and Presentation Photos
C-81	4/8/2009	E-mail from Mark Schindler, Octane, to Janice Hastings, EPA Region 10, regarding Meeting this Wed at 12:00
C-82	4/9/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: More on the D399 Engines
C-83	4/9/2009	Email from Sabrina Pryor, Air Sciences, to Pat Nair, EPA. Subject: Re: Follow-up on 4-71 and 3-71 Engines
C-84	4/9/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: Follow-up on 4-71 and 3-71 Engines 1
C-85	4/9/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: Follow-up on 4-71 and 3-71 Engines 2
C-86	4/9/2009	Email from Sabrina Pryor, Air Sciences, to Pat Nair, EPA. Subject: Re: Follow-up on Cat D399, 3304 and D343
C-87	4/9/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: Follow-up on Cat D399, 3304 and D343
C-88	4/9/2009	Email from Louise Roach, Clean AIR Systems, to Pat Nair, EPA, Subject: Re: Emissions Guidebook from CleanAIR Systems
C-89	4/9/2009	Email from Pat Nair at EPA Region 10 to Louise Roach, CleanAIR Systems. Subject: Re: Emissions Guidebook from CleanAIR Systems
C-90	4/9/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Last Question on D399s
C-91	4/9/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Last Question on D399s
C-92	4/9/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: CleanAIR Systems and CDPF PTE
C-93	4/9/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: CDPF and FD 12-20 Question
C-94	4/9/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Last Question on D399s
C-95	4/10/2009	Email from Lance Tolson, Shell, to Julie Vergeront, EPA Region 10. Regarding a Request for TSZ Around the Frontier Discoverer.

C-96	4/12/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Associated Emissions
C-97	4/13/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Discoverer – Small Source Emissions Spreadsheet
C-98	4/14/2009	Email from Tim Martin, Air Sciences, to Herman Wong and Pat Nair, EPA. Subject: Re: The Ice Breaker and OSR Fleets
C-99	4/14/2009	E-mail from Herman Wong, EPA, to Thomas Damiana, AECOM, regarding 1020 Question
C-100	4/15/2009	Email from Kirk Wings, ENVIRON, to Herman Wong and Rob Wilson, EPA. Subject: PM2.5
C-101	4/15/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Incinerator PM Emissions
C-102	4/16/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Questions and Confirmations – Shell Chukchi
C-103	4/16/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Q Re: Questions and Confirmations – Shell Chukchi
C-104	4/17/2009	Email from Pat Nair, EPA, to Rodger Steen,, Air Sciences. Subject: Re: Q Re: Questions and Confirmations – Shell Chukchi
C-105	4/20/2009	Email from Roger Steen, Air Sciences, to Paul Boys, EPA, Re: SCR System for Discoverer
C-106	4/20/2009	Email from Roger Steen, Air Sciences, to Paul Boys, EPA, Re: Additional BACT Information Request
C-107	4/20/2009	Email from Rodger Steen, Air Sciences to Pat Nair, EPA. Subject: Re: Q Re: Questions and Confirmations – Shell Chukchi 2
C-108	4/21/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Incinerator PM Emissions
C-109	4/21/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Q Re: Questions and Confirmations – Shell Chukchi
C-110	4/21/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: FW: Cementing v Logging
C-111	4/21/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: X/Q For Icebreakers
C-112	4/21/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: Cementing v Logging

C-113	4/22/2009	Email from Tim Martin, Air Sciences, to Pat Nair, EPA. Subject: FW: FW: Cementing v Logging
C-114	4/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA.. Subject: Re: Incinerator PM Emissions
C-115	4/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Ice Breakers
C-116	4/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Supply Ship Transit Emissions
C-117	4/23/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Conference Call re Icebreakers
C-118	4/23/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Conference Call re Icebreakers
C-119	4/23/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Conference Call re Icebreakers
C-120	4/23/2009	Email from Pat Nair, EPA , to Rodger Steen, Air Sciences. Subject: Re: Conference Call re Icebreakers 2
C-121	4/23/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Conference Call re Icebreakers 3
C-122	4/23/2009	Email from Tim Martin, Air Sciences, to Herman Wong and Pat Nair, EPA. Subject: FW: Q Re: Questions and Confirmations – Shell Chukchi
C-123	4/24/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Narrative on Anchor Retrieval
C-124	4/24/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Dissolved Hydrocarbon Gas Release
C-125	4/24/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Diverters
C-126	4/27/2009	Email from Roger Steen, Air Sciences, to Pat Nair and Paul Boys, EPA, Subject: Shell Discoverer CDPF Guarantees. Included Two Attachments:
C-127	4/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Diverters
C-128	4/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Narrative on Anchor Retrieval
C-129	4/27/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Narrative on Anchor Retrieval

C-130	4/27/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA,. Subject: Proposed Compliance Plan
C-131	4/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Shell Discoverer CDPF Guarantees
C-132	4/27/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Shell Discoverer CDPF Guarantees
C-133	4/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Copy of Disco-only EI
C-134	4/27/2009	Email from Rodger Steen, Air Sciences, to Pat Nair and Paul Boys, EPA. Subject: Shell Discoverer CDPF Guarantees
C-135	4/28/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA. Subject: RE: Volume Sources
C-136	4/28/2009	Email from Rodger Steen, Air Sciences, to Pat Nair and Herman Wong, EPA. Subject: Re: Ice Mgmt Fleet – Alternate Operating Scenarios
C-137	4/28/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Diverters 2
C-138	4/29/2009	Email from Rodger Steen, Air Sciences, to Jan Hastings, EPA. Subject: Discoverer – Notification of Elimination of the Ambient Air Boundary Based on a Safety Zone
C-139	4/30/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Partial Load Impact Analysis – CO & SO2
C-140	4/30/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: Meeting notes from Wednesday
C-141	4/30/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Cementing & Logging Emissions
C-142	4/30/2009	Email from Rodger Steen, Air Sciences to Pat Nair and Herman Wong, EPA. Subject: Cementing & Logging Emissions
C-143	4/30/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: Particulate Matter Emissions GS500C – Follow-Up
C-144	4/30/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Tier 2 Engine – Possible Filter
C-145	4/30/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Incinerator Emission Factor Report – Again
C-146	4/30/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, regarding Copy of Disco-only EI

C-147	5/1/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Tier 2 Engine – Possible Filter
C-148	5/1/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA, Subject: Re: Cementing & Logging Emissions 2
C-149	5/4/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Hydrocarbon Gas Released From Drilling Mud
C-150	5/4/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: Frontier Discoverer Vessel & CDPF Control Efficiencies
C-151	5/4/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: FW: Frontier Discoverer Vessel & CDPF Control Efficiencies
C-152	5/4/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Draft EPA Discoverer Emissions Inventory
C-153	5/4/2009	CleanAIR System Proposal to Roger Steen, Air Sciences, Quotation Number: 09050401RW-F, PERMIT Filter System in a 304 Stainless Steel Double Wall Insulated Critical Grade Silencer
C-154	5/4/2009	E-mail from Herman Wong, EPA, to Pat Nair, EPA, regarding Meeting Notes from Wednesday
C-155	5/5/2009	Email from Pat Nair at EPA, to Rodger Steen, Air Sciences. Subject: Attached EI
C-156	5/5/2009	Email from Dianne Soderlund, EPA, re: Meeting to Discuss ESA MMPH for the Chukchi and Beaufort Permits
C-157	5/6/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA. Subject: RE: Partial load impact analysis – CO & S)2
C-158	5/6/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Discoverer – Ice Management Fleet ORR
C-159	5/7/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: OSR Fleet
C-160	5/7/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Suggestion on Handling of Ice Mgmt Fleet Emissions
C-161	5/11/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Nov 08 to Jan09 Wainwright AQ Measurements
C-162	5/12/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA. Subject: RE: What I Have and What I Need
C-163	5/12/2009	Email from Sabrina Pryor, Air Sciences, to Pat Nair, EPA. Subject: Updated EPA Inventory

C-164	5/13/2009	Email from Pat Nair, EPA, to Sabrina Pryor, Air Sciences. Subject: Re: Updated EPA Inventory
C-165	5/14/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Other Possible Ice Mgmt Vessels
C-166	5/14/2009	Email from Thomas Damiana, AECOM, to Herman Wong, Subject RE: 2nd Qtr Wainwright Audit Reports
C-167	5/14/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Kapitan Dranitsyn Use
C-168	5/15/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Other Possible Ice Management Vessels
C-169	5/18/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Wainwright Audit Reports
C-170	5/19/2009	Email from Roger Steen, Air Sciences, to Paul Boys, EPA, Subject: Discoverer Chukchi & IC Engine Good Maintenance Practice.
C-171	5/19/2009	Email from Tim Martin, Air Sciences to Herman Wong, EPA Region 10. Subject: Wainwright Discussion Tomorrow
C-172	5/19/2009	E-mail from Herman Wong, EPA Region 10, to Kirk Wings, ENVIRON, and Tim Martin, Air Sciences, regarding Minutes of 18 May 2009 Conference Call
C-173	5/19/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA. Subject: RE: Other Modeling Scenarios
C-174	5/19/2009	Email from Roger Steen, Air Sciences, to Paul Boys, EPA. Subject: Discoverer & Ammonia Slip
C-175	5/20/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Ice Mgmt Incinerator NOx Emissions
C-176	5/21/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: RE: Shell Discoverer Chukchi – Response to 2 <sup>nd</sup> incompleteness letter
C-177	5/21/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: Secondary Operating Scenarios
C-178	5/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: MLC Compressors and Cementing-Logging
C-179	5/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Shell Discoverer Chukchi – Supply Ship
C-180	5/22/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Final Emissions

C-181	5/26/2009	Email from Rob Wilson, EPA Region 10, to Janis Hastings, EPA Region 10. Subject: Supply Ship Modeling
C-182	5/26/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Nanuq and Resupply Ship Compliance
C-183	5/27/2009	Email from Roger Steen, Air Sciences, to Paul Boys, EPA, Subject: BACT and CCV on Disco Emission Sources, Including Attachment on Closed Crankcase Ventilation (CCV), Instruction Part Number 55021, Rev C. Parker Hannifin Corporation, April 2009
C-184	5/27/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: RE: Final emissions – Formal Submittal
C-185	5/27/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Final Emissions – Formal Submittal
C-186	5/28/2009	Email from Gene Pavia, UMIAQ, copied to Pat Nair, EPA. Subject: Re: Shell OCS and Leasing Stipulations – MMS (Attachment not readable)
C-187	5/28/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Shell OCS and Leasing Stipulations – MMS
C-188	5/28/2009	E-mail from Janis Hastings, EPA, to Mack Schindler, Octane, regarding Supply ship modeling
C-189	5/29/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Final Emissions and Modeling Results (Attachment is Application Addendum Dated May 29, 2009 in Permit Application Documents)
C-190	6/5/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA. Subject: RE: Shell Chukchi Sea and Beaufort Sea PSD Application
C-191	6/8/2009	Email from Tim Martin, Air Sciences, to Pat Nair, EPA. Subject: Re: Shell Chukchi and Beaufort Sea Applications (without attachment: see attachment in 6/5/09 email)
C-192	6/8/2009	E-mail from Herman Wong, EPA Region 10, to Tim Martin and Rodger Steen, Air Sciences, regarding Non-Criteria Air Pollutants
C-193	6/9/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Confirmation of Formal Submittals
C-194	6/9/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA, regarding Confirmation of Formal Submittals
C-195	6/9/2009	E-mail from Herman Wong, EPA Region 10, to Kirk Winges, ENVIRON, regarding Ice Removal – Disco Bow
C-196	6/10/2009	Email from Kirk Winges, ENVIRON to Herman Wong, EPA Region 10. Subject: Anchor Handler setting and retrieving anchors

C-197	6/10/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Draft Agenda
C-198	6/11/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Non-criteria Air Pollutants
C-199	6/11/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Non-criteria Air Pollutants 2
C-200	6/11/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Non-criteria Air Pollutants 4
C-201	6/12/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Non-criteria Air Pollutants 3
C-202	6/12/2009	Email from Pat Nair, EPA, to Herman Wong, Paul Boys and Sonia Porter, EPA. Subject: Fw: Disposition of Discoverer Sewage Sludge
C-203	6/12/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Title VI Substances – To Be Addressed
C-204	6/12/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Disposition of Discoverer Sewage Sludge
C-205	6/15/2009	EPA and Shell June 15, 2009 Draft Meeting Agenda
C-206	6/19/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Draft Agenda
C-207	6/22/2009	Emails from Susan Childs, Shell, to Janis Hastings, EPA Region 10. Regarding Shell and Follow-Up from Call
C-208	6/22/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: RE:
C-209	6/22/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Permit Processing Productivity Meeting
C-210	6/23/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Title VI Substances – to be addressed 2
C-211	6/23/2009	E-mail from Susan Childs, Shell, to Janis Hastings, EPA Region 10, regarding e-mail for Shell and follow up from call
C-212	6/24/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. RE Question re Resupply Ship
C-213	6/25/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Title VI Substances – to be addressed

C-214	6/26/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: RE:
C-215	6/26/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: JPEG of Figure 5-1
C-216	6/26/2009	E-mail from Pat Nair, EPA, to Kirk Wings, ENVIRON, Tim Martin, Air Sciences, and Herman Wong, EPA Region 10, regarding Anchor Setting Emissions
C-217	6/29/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: JPEG of Figure 5-1
C-218	6/30/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: More JPEGS
C-219	7/1/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Wainwright Near-Term Monitoring Station Renovation
C-220	7/1/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Wainwright Near-Term Monitoring Station Renovation
C-221	7/1/2009	Wainwright Near-Term Ambient Air Quality Monitoring Program, Second Quarter Data Report, February through April 2009 Final
C-222	7/1/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, regarding Title VI substances
C-223	7/1/2009	E-mail from Herman Wong, EPA Region 10, to Tim Martin, Air Sciences, regarding Associated emissions
C-224	7/2/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Today's Agenda
C-225	7/6/2009	E-mail and letter from Peter Slaiby, Shell, to Michelle Pirzadeh, EPA. Regarding Shell and EPA Region 10 Meeting, June 15, 2009
C-226	7/6/2009	Email from Pat Nair, EPA to Rodger Steen, Air Sciences. Subject: Re: FW: Title VI Potentials to Emit
C-227	7/6/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: FW: Title VI Potentials to Emit 2
C-228	7/7/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA. Subject: RE: Changes to ISC3_Prime
C-229	7/8/2009	E-mail from Janis Hastings, EPA Region 10, to Susan Childs, Shell, regarding Background air quality data (Wainwright)
C-230	7/10/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: RE: Graphics

C-231	7/10/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Question on D399 2
C-232	7/10/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: Re: Question on D399 3
C-233	7/13/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Wainwright Near-Term Ambient Air Quality Monitoring Program Second Quarter Data Report
C-234	7/13/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Ice Removal – Disco Bow
C-235	7/13/2009	E-mail from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Wainwright 2 <sup>nd</sup> qtr air data
C-236	7/14/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: Wainwright 2 <sup>nd</sup> qtr air data
C-237	7/14/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10. Subject: RE: Wainwright 2 <sup>nd</sup> qtr air data
C-238	7/14/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: CleanAIR CDPFs and HiBACK Monitor
C-239	7/15/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: NSPS and NESHAPS
C-240	7/15/2009	E-mail from Doug Bopray, AECOM, to Christopher Hall, EPA Region 10, regarding Wainwright Near-term Monitoring Project PM 2.5 flow data
C-241	7/16/2009 Folder	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: RE: Bow Washing emissions for 2.5 and 10 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-241))
C-242	7/16/2009	Email from Pat Nair, EPA, to Herman Wong, EPA Region 10. Subject: Re: Bow Washing Emissions for 2.5 and 10
C-243	7/16/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, EPA Region 10. Subject: RE: Bow Washing emissions for 2.5 and 10
C-244	7/16/2009 Folder	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Background (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-244)
C-245	7/16/2009	Email from Tim Martin to Herman Wong RE: Background with tables attached

C-246	7/16/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Question on D399
C-247	7/16/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA . Subject: Re: Question on D399(without attachment; see attachment with 7/16/09 email from Pat Nair to Roger Steen)
C-248	7/16/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA Subject: Re: NSPS and NESHAPS
C-249	7/16/2009	E-mail from Herman Wong, EPA Region 10, to Christopher Hall, EPA Region 10, forwarding 7/16/2009 email from Thomas Damiana, regarding Wainwright Near-Term Monitoring Program May 2009 Data Summary
C-250	7/16/2009	E-mail from Christopher Hall, EPA Region 10, to Herman Wong, EPA Region 10, regarding Brief notes from call with AECOM on Tuesday
C-251	7/17/2009	Email from Tim Martin, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Bow Washing emission for 2.5 and 10
C-252	7/23/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: RE: PM Data Collection at Wainwright
C-253	7/23/2009	E-mail from Herman Wong, EPA Region 10, to Dianne Soderlund, EPA Region 10, regarding Shell North Slope Site Visit-Trip Report
C-254	7/23/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Wainwright Near-term Monitoring Project PM2.5 Data
C-255	7/23/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Shell's 2010 Chukchi Sea Exploration Drilling Program – Request for Letter of Authorization (LOA) for Incidental Take of Polar Bears and Pacific Walrus (attachment not delivered)
C-256	7/24/2009	Email from Nancy Helm, EPA Region 10, to Mark Schindler, Octane,. Regarding the Four Months of Data Requirement
C-257	7/27/2009	Letter from Michelle Pirzadeh,, EPA, to Peter Slaiby, Shell. Regarding Follow-Up to the June 15, 2009 EPA/Shell Meeting on Air Permits for the Chukchi and Beaufort Sea
C-258	7/27/2009	E-mail from Herman Wong, EPA Region 10, to Thomas Damiana, AECOM, regarding PM2.5 Collocated Sampling
C-259	7/27/2009	E-mail from Steve Ellsworth, ASRC ENERGY, to Janis Hastings, EPA Region 10, regarding LOA Cover Letter – Chukchi EP 2010
C-260	7/27/2009	E-mail from Nicole St. Amand, Shell, to Janis Hastings, EPA Region 10, regarding June Wainwright Data (attachment not delivered)
C-261	7/27/2009	E-mail from Doug Bopray, AECOM, to Christopher Hall, EPA Region 10 regarding Wainwright Near-Term Monitoring Project PM

		Concentration Data
C-262	7/28/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10. Subject: RE: Wainwright Near-term Monitoring Project PM2.5 Data
C-263	7/28/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: Wainwright Collocated FEM
C-264	7/28/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Confirmed OSR Fleet
C-265	7/28/2009	Email and attachment from Tom Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Wainwright Near Term June 2009 Data Summary
C-266	7/28/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Wainwright Near-Term Monitoring Project PM2.5 Data
C-267	7/28/2009	E-mail from Christopher Hall, EPA Region 10, to dgobeli regarding Zero offset for BAM 1020
C-268	7/29/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Proposed Meetings and Agenda
C-269	7/30/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences. Subject: Re: Missing Document
C-270	7/30/2009	Email from Rodger Steen, Air Sciences, to Pat Nair, EPA. Subject: FW: EPA Memo on NOx Emissions
C-271	7/30/2009	E-mail from Herman Wong, EPA Region 10, to Nicole St. Amand, Shell, regarding North Slope Visit
C-272	7/31/2009	Letter from Richard Albright, EPA, to Susan Childs, Shell, regarding, the Completeness Determination for the Chukchi PSD Permit Application
C-273	8/4/2009	Letter from Peter Slaiby, Shell to Michelle Pirzadeh, EPA. Regarding the Air Permitting Status
C-274	8/4/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, re: Preliminary Draft-Chukchi Sea Permit.
C-275	8/4/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, regarding Action Items – Meeting on 7/30/2009
C-276	8/5/2009 Folder	E-mail from Dave Bray, EPA Region 10, to Mark Schindler, Octane, regarding Final Emissions Inventory (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-276)

C-277	8/7/2009	E-mail from Peter Slaiby, Shell, to Michelle Pirzadeh, EPA. Regarding This Weeks Meeting (the Chukchi and Beaufort Sea Permit Schedule)
C-278	8/10/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane. Regarding Responses to draft Disco/Chukchi Permit – the largest issues
C-279	8/11/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: RE: Responses to draft Disco/Chukchi Permit – the largest issue (without attachment; attachment on Steen email of 8/10/09 in Section A)
C-280	8/11/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: Use of CCV on Disco primary generators
C-281	8/11/2009	E-mail from Kirk Lilley, Shell, to Julie Vergeront, EPA, regarding Shell – Chukchi Permittee Name
C-282	8/11/2009	E-mail from Rodger Steen at Air Sciences to Herman Wong, EPA Region 10. Subject: RE: Responses to draft Disco/Chukchi Permit – the largest issue
C-283	8/12/2009	Email from Rodger Steen, Air Sciences, to Herman Wong, EPA Region 10. Subject: Shell request for modification of draft permit location restrictions
C-284	8/12/2009	Email from Kirk Lilley, Shell, to Julie Vergeront, EPA, re: FWD: Chukchi Permit (Susan Childs’ Authority to Sign for Shell Offshore Inc. and Shell Gulf of Mexico Inc.)
C-285	8/12/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Collocated Monitor
C-286	8/12/2009	E-mail from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, regarding Collocated Monitor and Status
C-287	8/14/2009	Shell Memorandum for Discussion – Reasons Why OCS Permitting in the Beaufort Sea Costal Area Should Not be Much Shorter than Experienced in the Chukchi Sea
C-288	8/18/2009	Email from Mark Schindler, Octane to Janis Hastings, Region 10 EPA, Re: Checking In
C-289	8/18/2009	E-mail (#1) from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Precision and Bias Measurements for PSD Preconstruction Monitoring at Prudhoe Bay Alaska.
C-290	8/18/2009	Email (#2) from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM. Regarding Precision and Bias Measurements for PSD Preconstruction Monitoring at Prudhoe Bay Alaska.
C-291	8/18/2009	Email (#3) from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, Regarding Precision and Bias Measurements for PSD Preconstruction Monitoring at Prudhoe Bay Alaska.

C-292	8/19/2009	Email from Herman Wong, EPA Region 10, to Thomas Damiana, AECOM, regarding Precision and Bias Measurements for PSD Preconstruction Monitoring at Prudhoe Bay Alaska.
C-293	8/20/2009	Letter from Michelle Pirzadeh, EPA, to Peter Slaiby, Shell, Regarding EPA's Process for Issuing Shell's Chukchi and Beaufort Sea Permits
C-294	8/20/2009	Diagram of Semi-Parallel Processing Schedule: Shell EPA PSD Air "Major Source" Permits for the Discoverer Drill Vessel in Chukchi and Beaufort Seas, AK
C-295	8/21/2009	Email from Mark Schindler, Octane, to Janis Hastings, Region 10 EPA, Re: Call today to Seattle Attachment from Mark Schindler, Octane, Re: Call Today, Beaufort Processing Schedule Final
C-296	8/21/2009	Letter from Susan Childs, Shell, to Richard Albright, Director, Office of Air, Waste and Toxics Re: Partial Incompleteness Letter Response Permit Application for Frontier Discoverer Drill Vessel in Beaufort Sea
C-297	8/21/2009	Email from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, re: FWD: This Week's Meeting
C-298	8/21/2009	E-mail from Michelle Romak, Shell to Michelle Pirzadeh, EPA Regarding This Weeks Meeting with EPA
C-299	8/22/2009	E-mail from Peter Slaiby, Shell to Michelle Pirzadeh, EPA Regarding This Weeks Meeting with EPA (without attachment; see attachment email of 8/21/2009)
C-300	8/24/2009	Email from Mark Schindler, Octane, to Janis Hastings, Region 10 EPA, Re: Agenda Attachment from Mark Schindler, Octane, Re: Meeting Agenda: August 25, 2009 Shell and R10 Meeting Regarding Beaufort Sea Major PSD Permit
C-301	8/25/2009	Memo from Julie Vergeront, EPA R10, to Administrative Record, re: Meeting with Shell Regarding OCS/PSD Permits for Frontier Discoverer Operations in the Chukchi and Beaufort Seas Att. 1: Meeting Agenda Att. 2: Attendance Signature Page Att. 3: Shell's Proposed Processing Schedule
C-302	8/26/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding North Slope Particulate Summary (with spreadsheet data)
C-303	8/26/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Recently PM 2.5 Wainwright Measurements
C-304	8/28/2009 Folder	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Wainwright Third Monitoring Quarter 2009 Data Summary. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C -

		Correspondence and Communication between EPA and Shell\ C-304)
C-305	8/31/2009	Email from Herman Wong, EPA Region 10, to Robert Elleman, EPA, Forwarding 8/28/2009 email from Warren Horowitz, MMS, to Herman Wong, EPA Region 10, Re: FW: MMS surface-Meteorological buoy
C-306	9/1/2009	Letter from Peter E. Slaiby, Shell,, to Michelle Pirzadeh, EPA Region 10, re: August 25, 2009 Meeting
C-307	9/2/2009	Email from Mark Schindler, Octane, to Janis Hastings, Region 10 EPA, Re: Letter to EPA from Shell Attachment from Mark Schindler, Octane, Re: September 1, 2009 letter from Peter Slaiby, Shell, to Michelle Pirzadeh, Region 10 EPA
C-308	09/8/2009	Email from Janis Hastings, EPA, to Natasha Greaves, EPA, re: Shell/EPA Meeting and White Paper Att. 1: Memorandum for Discussion – Reasons Why OCS Permitting in the Beaufort Sea Costal Area Should Not be Much Shorter than Experienced in the Chukchi Sea
C-309	9/8/2009	Email from Mark Schindler, Octane, to Janis Hastings, Region 10 EPA, Re: Meeting and White Paper
C-310	9/8/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Proposed Deadhorse Monitoring Location
C-311	9/11/2009	Email from Mark Schindler, Octane, to Janis Hastings, EPA, re: Beaufort Sea Processing Memo For Discussion Att. 1: Memorandum for Discussion – Reasons Why OCS Permitting in the Beaufort Sea Costal Area Should Not be Much Shorter than Experienced in the Chukchi Sea Updated 9-11
C-312	9/14/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Wainwright First Quarter Report – with attachments
C-313	9/17/2009	Email from Janis Hastings, EPA, to Mark Schindler, Octane, re: Beaufort Sea Processing Memo for Discussion Att. 1: Memorandum for Discussion – Reasons Why OCS Permitting in the Beaufort Sea Costal Area Should Not be Much Shorter than Experienced in the Chukchi Sea Updated 9-11
C-314	9/17/2009	Email from Mark Schindler Octane, to Janis Hastings, Region 10 EPA, Re: Beaufort Sea Processing Memo for Discussion (without attachment; see attachment in 9/17/2009 email from Janis Hastings, EPA Region 10, to Mark Schindler, Octane)
C-315	9/21/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding FEM FRM Designation

C-316	9/21/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Deadhorse FRM Sampler
C-317	9/22/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding North Slope Monitoring Station Map
C-318	9/23/2009	Email from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, re: Response Letter is Attached to Mr. Peter Slaiby. Attachment: Letter from Michelle Pizadeh, EPA Region 10, to Peter Slaiby, Shell, Re: Response to Summarizing 2009 August 25 Meeting Including Suggestions for Accelerating the Schedule for Issuance of Air Permits for Exploratory Drilling in the Beaufort Sea.
C-319	9/23/2009	Letter from Michelle Pirzadeh, EPA R10, to Peter E. Slaiby, Shell. Shell Exploration and Production, re: Response to September 1, 2009 Letter
C-320	9/30/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Wainwright Near-Term Monitoring August 2009 Monthly Report
C-321	10/2/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Deadhorse PM 2.5 Monitoring Design
C-322	10/6/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Collocated monitoring requirements
C-323	10/13/2009 Folder	E-mail from Herman Wong, EPA Region 10, to Thomas Damiana, AECOM, regarding Validation and Summary of Wainwright Data Nov 08 to Jul 09.(Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-323)
C-324	10/13/2009	E-mail from Janis Hastings, EPA, to Juliane Matthews, EPA forwarding email from John Iani, on behalf of Shell, to Michelle Pirzadeh, EPA re: News Article on Shell Permits
C-325	10/19/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Deadhorse Project DQOs
C-326	10/20/2009	Email from Kirk Lilley, Shell, to Janis Hastings, EPA Region 10, Re: Shell-Response to Earthjustice Letter on Monitoring
C-327	10/20/2009	Email from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Deadhorse Project DQOs
C-328	10/21/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Deadhorse Particulate Monitoring
C-329	10/21/2009	E-mail from Pat Nair, EPA, to Pat Nair, EPA, regarding Clarification Needed on Icebreaker #2

C-330	10/22/2009	Email from Mark Schindler, Octane to Janis Hastings, EPA Region 10, regarding Deadhorse Station
C-331	10/26/2009 Folder	Email from Linsey DeBell, AECOM, to Chris Hall, EPA Region 10, regarding PEP Data (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-331)
C-332	10/28/2009	E-mail from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding CPAI-Wainwright Data (without attachment; see attachment to 10/28/09 email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10)
C-333	10/28/2009	E-mail from Herman Wong, EPA Region 10, to Brad Thomas, ConocoPhillips, regarding Deadhorse Update (without attachment; see attachment in incoming email in Section D)
C-334	10/28/2009	E-mail from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding CPAI-Wainwright Data
C-335	10/30/2009	Email from Herman Wong, EPA Region 10, to Thomas Damiana, AECOM, regarding Call on Monday, 02 November 2009
C-336	10/30/2009	Email from Christopher Hall, EPA Region 10, to Linsey DeBell, AECOM, regarding 2005-06 Collocated PM2.5 data
C-337	11/3/2009	E-mail from Pat Nair, EPA, to Herman Wong, EPA Region 10, regarding Shell Request 3.1
C-338	11/9/2009	EPA Permit Status: Shell’s Applications for Chukchi and Beaufort Seas, Timeline
C-339	11/12/2009	Email from Janis Hastings, EPA Region 10, to Mark Schindler, Octane, re: Confirming Call
C-340	11/12/2009	Email from Eric Hansen, ENVIRON to Pat Nair, EPA regarding Reminder on Chukchi “must haves”
C-341	11/13/2009 Folder	Email from Linsey DeBell, AECOM, to Chris Hall, EPA Region 10, regarding State PM 2.5 Data (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-341)
C-342	11/17/2009	Email from Pat Nair, EPA, to Kirk Wings, ENVIRON, regarding Closing Loop on Changes
C-343	11/18/2009	Email from Kurt Wings, ENVIRON, to Pat Nair, EPA re: Kilabuck
C-344	11/18/2009	Memo from Julie Vergeront, EPA Region 10, Re: Meeting with Shell regarding OCS/PSD permits for Frontier Discoverer operations in the Chukchi Beaufort Seas

		Attach 1: Attendance Signature Page Attach 2: Preliminary Agenda Attach 3: Agenda Prepared by Shell
C-345	11/18/2009	Email from Linsey Bell, AECOM, to Christopher Hall, EPA Region 10, regarding Deadhorse Statistical Approach
C-346	11/18/2009	E-mail from Chris Hall, EPA Region 10, to Linsey Bell, AECOM, re Deadhorse Oct Nov Report with Attachments
C-347	11/18/2009	Email from Herman Wong, EPA Region 10 to Janis Hastings, EPA Region 10, Re: AQIA Handout at 17 November 2009 Meeting
C-348	11/20/2009	E-mail from Pat Nair, EPA to Kirk Wings, ENVIRON, regarding Scale Idea
C-349	11/20/2009	E-mail from Janis Hastings, EPA to Mark Schindler, Octane, regarding AQIA Handout at 17 November 2009 Meeting
C-350	11/25/2009	Email from Dave Bray, EPA Region 10, to Pat Nair, EPA, re: Important Items from 11/24/09 Call with Pete Slaiby and Susan Childs
C-351	11/25/2009	Email with attachment from Tom Damiana, AECOM, to Christopher Hall, EPA Region 10, re Revision to the Wainwright QAPP. (updated December 2009)
C-352	11/27/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Call on Friday?
C-353	11/30/2009 Folder	Email from Thomas Damiana, AECOM to Christopher Hall Deadhorse Particulate Monitoring QAPP Draft Rev 02 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-353)
C-354	12/1/2009	Shell Overview, Chukchi and Beaufort PSD Air Permits Prevention of Significant Deterioration (PSD), North Slope Borough Assembly.
C-355	12/2/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10. Subject: Deadhorse October through November 2009 Monitoring Summary with attachment “Deadhorse PM2.5 Monitoring Program Monthly Preliminary Data Summary October – November 2009”
C-356	12/2/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10. Subject: Revision to the Wainwright QAPP
C-357	12/2/2009 Folder	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10. Subject: Deadhorse Particulate Monitoring QAPP Draft Rev. 02 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-357)

C-358	12/2/2009 Folder	Email from Thomas Damiana, AECOM, to Herman Wong Subject: Wainwright 4 <sup>th</sup> Monitoring Quarter 2009 Data Summary (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-358)
C-359	12/2/2009	E-mail from Kirk Wings, ENVIRON, to Pat Nair, EPA, regarding Marine engine regs.
C-360	12/2/2009	E-mail from Rodger Steen, Air Sciences to Pat Nair, EPA, regarding Shell Chukchi – Confirmation on Other Vessels
C-361	12/2/2009 Folder	E-mail from Chris Hall, EPA to Thomas Damiana, AECOM regarding Wainwright Fourth Monitoring Quarter 2009 Data Summary (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-361)
C-362	12/3/2009	Memo from Suzanne Skadowski, EPA Region 10, Re: Meeting with Shell regarding OCS/PSD permits for Frontier Discoverer operations in the Chukchi and Beaufort Seas
C-363	12/3/2009 Folder	E-mail from Rodger Steen, Air Sciences, to Pat Nair, EPA regarding GHG emissions manual – O&G (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\C-363)
C-364	12/7/2009	Email from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Deadhorse Precision and Bias Goals
C-365	12/7/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding RSLO Version of the Deadhorse Draft QAPP Revision 2 <sup>nd</sup> Version
C-366	12/7/2009	E-mail from Pat Nair, EPA to Rodger Steen, Air Sciences and Kirk Wings, ENVIRON, regarding Clarification on Hull 24 with attachments
C-367	12/8/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Deadhorse Precision & Bias Goals
C-368	12/9/2009	Email and attachment from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Deadhorse Precision & Bias Goals with spreadsheet data
C-369	12/9/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Deadhorse Precision & Bias Goals (without attachment; see attachment in 1/9/09 email from Christopher Hall, EPA Region 10 to Thomas Damiana, AECOM)
C-370	12/9/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Revision 01 – Deadhorse October through November 2009 Monitoring

C-371	12/9/2009 Folder	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Deadhorse Precision & Bias (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-371)
C-372	12/9/2009	Email from Pat Nair, EPA to Rodger Steen, Air Sciences, regarding Change in Emissions Units
C-373	12/10/2009	E-mail from Rodger Steen, Air Sciences, to Pat Nair, EPA, regarding Info on New Engines
C-374	12/10/2009 Folder	Email and attachments from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Deadhorse Precision and Bias Goals (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-374)
C-375	12/11/2009	Email from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Info on New Engines
C-376	12/11/2009 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Cementing and Logging Engines (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-376)
C-377	12/11/2009	Memorandum from Julie Vergeront, EPA Region 10, regarding Conversation with Kirk Lilley, Shell, re: Anchor Setting
C-378	12/13/2009	E-mail from Mark Schindler, Octane, to Janis Hastings, EPA Region 10, regarding Supplemental CD
C-379	12/14/2009 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Preliminary Draft of EI – Discoverer Chukchi Sea Permit (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-379)
C-380	12/14/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, re: Tuesday Meeting
C-381	12/15/2009 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Almost Final EI for Chukchi Permit Attached (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-381)
C-382	12/15/2009	Email from Herman Wong, EPA Region 10, to Thomas Damiana, AECOM, re: Deadhorse October through November Monitoring Summary

C-383	12/16/2009 Folder	E-mail from Thomas Damiana, AECOM, to Chris Hall, EPA Region 10, regarding Final Deadhorse QAPP (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-383)
C-384	12/16/2009	E-mail from Thomas Damiana, AECOM, to Chris Hall, EPA Region 10, regarding RLSO version of the Deadhorse QAPP
C-385	12/17/2009	Email from Chris Hall, EPA to Thomas Damiana, AECOM regarding Nuiqsut Data (without attachment; see attachment to 6/17/09 email from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM)
C-386	12/17/2009	E-mail from Chris Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Wainwright QAPP(s)?
C-387	12/17/2009	E-mail from Thomas Damiana, AECOM to Chris Hall, EPA Region 10, regarding Help with your questions
C-388	12/17/2009 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding El Finalizing Icebreaker #1 (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-388)
C-389	12/18/2009	E-mail from Christopher Hall, EPA to Thomas Damiana, AECOM regarding Deadhorse October November report revision 1 questions (I can get you mote informal numbers)
C-390	12/18/2009	E-mail from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding EPA Approval for the Deadhorse QAPP
C-391	12/18/2009	E-mail from Christopher Hall, EPA Region 10, to Thomas Damiana, AECOM, regarding Deadhorse October November report revision 1 questions (Thanks for the quick reply)
C-392	12/18/2009	E-mail from Thomas Damiana, AECOM to Chris Hall, EPA regarding Nuiqsut data
C-393	12/18/2009	Email from Thomas Damiana, AECOM to Christopher Hall, EPA regarding Wainwright QAPP(s)?
C-394	12/21/2009	E-mail from Herman Wong, EPA Region 10, to Christopher Hall, EPA Region 10, re: Evaluation of Deadhorse data; 23 OCT 2009 to 29 NOV 2009
C-395	12/22/2009 Folder	E-mail from Eric Hansen, ENVIRON, to Paul Boys, EPA, regarding Supplemental BACT analyses for CO emissions from MLC and logging wench engines (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-395)

C-396	12/22/2009 Folder	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Revision 02 – Deadhorse October through November 2009 Monitoring Summary. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-396)
C-397	12/23/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Comments to date on Deadhorse QAPP
C-398	12/23/2009	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Attached EI for Chukchi
C-399	12/23/2009	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Wainwright Near-Term Monitoring Flow Checks
C-400	12/23/2009 Folder	E-mail from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, regarding Nuiqsut data (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-400)
C-401	12/24/2009	E-mail from Herman Wong, EPA Region 10, to Christopher Hall, EPA Region 10, Re: Revision 2; Evaluation of Deadhorse Data from 23 Oct 2009 to 29 Nov 2009
C-402	12/24/2009	E-mail from Eric Hansen, ENVIRON, to Paul Boys, EPA, regarding Supplemental BACT analyses for CO emissions from MLC and logging winch engines (with attachment: <i>Airborne Toxic Control Measure for Stationary Compression-Ignition Engines</i> , CA EPA Air Resources Board. September 2003.)
C-403	12/28/2009	Email from Mark Schindler, Octane, to Natasha Greaves, EPA, re: EPA/Shell Meeting Time and Date [1] (Do this on the 5 <sup>th</sup> ?)
C-404	12/28/09	Email from Mark Schindler, Octane, to Natasha Greaves, EPA, re: EPA/Shell Meeting Time and Date [2] (This sounds great)
C-405	12/28/2009	E-mail from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, regarding Meteorological Data Scanning and Validating (MSV) Program
C-406	12/28/2009	E-mail from Rodger Steen, Air Sciences to Pat Nair, EPA regarding Compliance Tracking for Ice Management and Nanuq
C-407	12/30/2009 Folder	E-mail from Thomas Damiana, AECOM to Herman Wong, EPA Region 10, regarding Deadhorse December 2009 Monitoring Summary. (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\ C-407)

C-408	1/4/2010 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Attached Chukchi EI (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\C-408)
C-409	1/4/2010	Letter from Peter Slaiby, Shell, to Gina McCarthy, EPA, Re: The meeting in mid-December to mobilize the 2010 drilling season
C-410	1/5/2010 Folder	E-mail from Pat Nair, EPA, to Rodger Steen, Air Sciences, regarding Attached EI (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C – Correspondence and Communication between EPA and Shell\C-410)
C-411	1/5/2010	E-mail from Rodger Steen, Air Sciences, to Pat Nair, EPA, regarding Viking annual NOx emission factor to be used in inventory
C-412	1/5/2010	Email from Jan Hastings, EPA, to Michelle Pirzadeh, EPA, re: Background Information for the Shell/EPA January 6, 2010 (redacted) Att. 1: 1/4/10 Letter from Peter Slaiby, Shell, to Gina McCarthy, re: Discussion in Order to Mobilize for 2010 Drilling Season Att. 2: Shell Chukchi OCS/PSD Permit Chronology and Completeness of Supplemental BACT Documents
C-413	1/6/2010	Shell and EPA R10 January 6, 2010 Meeting, Seattle, WA, Chukchi and Beaufort Sea PSD Permit Applications, Summary and Notes (EPA’s Agenda and Attendee List is Attached)
C-414	1/6/2010	EPA Meeting Agenda – Shell Beaufort OCS/PSD Permit Application
C-415	1/8/2010	Email from Mark Schindler, Octane, to Janis Hastings, Region 10 EPA, Re: EPA proposes new modified air quality permit to Shell Gulf of Mexico, Chukchi Sea, Alaska
C-416	1/8/2010	Email from Eric Hansen, Environ, to Mark Schindler, Octane, and Janis Hastings, Region 10 EPA, Re: BACT
C-417	1/11/2010 Folder	E-mail from Thomas Damiana, AECOM to Herman Wong, EPA Region 10, regarding Wainwright Fourth Monitoring Quarter 2009 Data Summary (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\C-417)
C-418	1/11/2010 Folder	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, RE: Wainwright Near_Term November and December 2009 Prelim Data Summary with attachments (Attachments 2 and 3 not printed. Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\C-418)

C-419	1/11/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, re: Deadhorse Sampling Frequency
C-420	1/19/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Deadhorse Sampling Frequency
C-421	1/20/2010	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AECOM, Re: Working Request Through OAQPS for Deadhorse Sampling Frequency
C-422	1/20/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Deadhorse Sampling Frequency
C-423	1/26/2010	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AECOM, Re: Deadhorse Sampling Schedule
C-424	1/26/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Thoughts on Deadhorse Sampling Schedule (without attachment; see attachment with 1/6/2010 email from Thomas Damiana, AECOM, to Christopher Hall, EPA Region 10, in Section CC)
C-425	1/29/2010	Letter from Gina McCarthy, EPA, to Peter Slaiby, Shell, Re: Response to Shell's letter dated January 4, 2010
C-426	2/4/2010	Email from Eric Hansen, Environ, to Paul Boys, EPA, Re: Shell Beaufort Sea Application – BACT Clarification (redacted)
C-427	2/7/2010	Test Plan for Shell Gulf of Mexico, Inc. Frontier Discoverer Drillship Chukchi Sea Exploration Drilling Program PSD Permit No. R10OCS/PSD-AK-09-01 (Initial Compliance Testing 2010)
C-428	2/8/2010	Memorandum from Kristi Smith, EPA, to Julie Vergeront, EPA Region 10, RE: Meeting with Shell Attorneys Regarding the Chukchi and Beaufort OCS/PSD permits
C-429	2/9/2010	E-mail from John Iani, on behalf of Shell, to Dave Bray, EPA Region 10, re: Fw
C-430	2/10/2010	E-mail from Mark Schindler, Octane, to Dave Bray, EPA Region 10, re: Agenda and Decision
C-431	2/12/2010	Email from Jan Hastings, EPA Region 10, to Pat Nair, EPA, re: No Meeting with Shell Next Week
C-432	2/24/2010	Shell Meeting Notes, Re: BACT requirements, Testing for crane engines, and other stack testing
C-433	3/1/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Deadhorse Sampling Frequency
C-434	3/1/2010	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AECOM, Re: Deadhorse Sampling Frequency

C-435	3/3/10	Email from Julie Vergeront, EPA Region 10, to Julie Vergeront, EPA Region 10, forwarding Email from Janet McCabe, EPA, to Sara Glen, Shell, Re: FW: Sara/Janet 2:00 will work
C-436	3/9/2010	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AECOM, Re: Wainwright Data
C-437	3/12/2010	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AECOM, Re: Wainwright Data Draft to be Released
C-438	3/12/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Wainwright Data
C-439	3/12/2010 Folder	Email and Attachments from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, Wainwright Near-Term September, November and December 2009 Monthly Preliminary Data Summary. Attachments 2-4 not printed (Attachments can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-439)
C-440	3/13/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Wainwright data
C-441	3/13/2010	Email from Kirk Lilley , Shell, to Julie Vergeront, Region 10 EPA, Re: FW: Source Test
C-442	3/15/2010	Email from Herman Wong, Region 10 EPA, to Kirk Wings, ENVIRON, Re: Fw: Call with Environ re: VISCREEN
C-443	3/26/2010	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, RE: Report and Data Distribution and PM 2.5
C-444	3/30/2010	Email from Thomas Damiana, AECOM, to Herman Wong, Region 10 EPA, Re: Wainwright Permanent Station Q4 Monitoring Report with attachments
C-445	3/30/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Wainwright Permanent Station Q4 2009 Monitoring Report (Attachments to this email included with Exhibit C-442)
C-446	3/30/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Wainwright Near-Term Annual Data Summary (Attachment 2 not printed. Attachment can be found on the Chukchi Administrative Record Compact Disc at the following file path: C - Correspondence and Communication between EPA and Shell\ C-446)

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**Section CC. Correspondence and Communication between EPA and Shell  
(including Shell Contractors)**

EPA Exhibit Number	Date	Document Title
CC-1	10/20/2008	Email from Wayne Wooster, ASRC Energy, to Herman Wong, re: MMS/EPA Shell Beaufort Sea Met Meeting/Teleconference
CC-2	10/21/2008	Email from Susan Childs, Shell, to Herman Wong, EPA, Subject: MMS-EPA-Shell Beaufort Sea Met Monitoring Meeting-Teleconference
CC-3	11/4/2008	Email from Susan Childs, Shell, to Herman Wong, EPA Region 10, Subject: Beaufort Buoy Data Collection
CC-4	1/2/2009	Email from Nicole St. Amand for Susan Childs, Shell, to Rick Albright, EPA, re: Shell Letter to EPA RE: Notice of Intent to Submit a Preconstruction Permit Application for the Frontier Discoverer Beaufort Sea Exploratory Drilling Program Att. 1: Shell letter to EPA with Letter of Intent
CC-5	1/21/2009	Email from Tim Martin to Pat Nair Re: Beaufort Sea Meteorological Stations
CC-6	1/29/2009	Email from Herman Wong, EPA, to Mark Schindler, Octane, re: Meteorological and Air Quality Data Collection Programs Representative of the Beaufort Sea
CC-7	3/17/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA Region 10, Subject: UAF Beaufort Coast Offshore Data Collection Planned for Spring/Summer 2009
CC-8	5/22/2009	Email from Eric Hansen, Environ, to Dave Bray and Natasha Greaves, EPA, re: Beaufort OCS Air Quality Control Region
CC-9	5/29/2009	Outer Continental Shelf Pre-Construction Air Permit Application, Frontier Discoverer Beaufort Sea Exploration Drilling Program
CC-10	5/29/2009	Letter from Susan Childs, Shell Offshore Inc., to Janis Hastings, EPA, re: Preconstruction Permit Application for Frontier Discoverer Drill Vessel in Beaufort Sea, Alaska
CC-11	6/03/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Six Additional Copies of Shell Beaufort Sea Air Permit Application
CC-12	6/04/2009	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, to re: Shell Beaufort Sea Air Permit Application – Electronic Copy (See Exhibit CC-9 for attachment)

CC-13	6/04/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Shell Beaufort Sea Air Permit Application – Electronic Copy (Thanks for the PDF of the permit application)
CC-14	6/08/2009	Email from Eric Hansen, ENVIRON to Natasha Greaves, Region 10 EPA, Re: Beaufort Review
CC-15	6/24/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Beaufort OCS Permit Application Lease Blocks
CC-16	6/26/2009	Email from Caren Mathis, ASRC, to Jan Hastings, EPA, re: 2010 Camden Bay EP
CC-17	7/23/2009	Email from Natasha Greaves, EPA, to Eric Hansen, re: Incompleteness Determination to Shell Att. A: EPA Air Quality Impact Analysis Comments
CC-18	7/24/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Incompleteness Determination and Draft Attachment A to EPA's Partial Incompleteness Determination Letter
CC-19	7/24/2009	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: Request for a Word Version of EPA's Partial Incompleteness Determination Letter Att. 1: Letter (unsigned) from Rick Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Partial Incompleteness Determination Att. 2: EPA Air Quality Impact Analysis Comments (Att. A)
CC-20	7/30/2009	Email from Natasha Greaves, EPA, to Kirk Wings, Environ, re: Partial Incompleteness Determination Att. 1: 7/29/09 Letter from Rick Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Partial Incompleteness Determination Att. 2: EPA Air Quality Impact Analysis Comments (Att. A)
CC-21	7/31/2009	Email from Kirk Wings, Environ, to Natasha Greaves, EPA, re: Word Version of EPA's Partial Incompleteness Determination Letter Att. 1: Letter from Rick Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Partial Incompleteness Determination Att. 2: EPA Air Quality Impact Analysis Comments (Att. A)
CC-22	8/17/2009	Email from Kirk Wings, ENVIRON, to Herman Wong, Region 10 EPA, Re: Regional Emission Inventory Attachment from Kirk Wings, ENVIRON, Re: Table Only
CC-23	8/17/2009	Email from Herman Wong, Region 10 EPA to Alan Schuler, Re: ADEC Verification
CC-24	8/21/2009	Letter from Susan Childs, Shell Offshore, Inc., to Richard Albright, EPA, re: Partial Incompleteness Letter Response Att. 1: Responses to EPA July 29, 2009 Incompleteness Letter Att. 2: Technical Memorandum: Discoverer Chukchi Application – Regulated Non-Criteria Air Pollutants

CC-25	8/21/2009	Email from Eric Hansen, ENVIRON, to Rick Albright, EPA, Re: Response to Partial Incompleteness Letter for SOI Beaufort Sea Application.
CC-26	8/23/2009	Email from Janis Hastings, EPA, to Natasha Greaves, EPA, re: Shell Letter to EPA Regarding Response to EPA's Partial Incompleteness Letter Att. 1: 6/16/09 Technical Memorandum: Discoverer Chukchi Application – Regulated Non-Criteria Air Pollutants Att. 2: August 21, 2009 Letter from Susan Childs, Shell Offshore, Inc., to Richard Albright, EPA, re: Partial Incompleteness Letter Response Att. 3: Responses to EPA July 29, 2009 Incompleteness Letter
CC-27	8/24/2009	Email from Herman Wong, Region 10 EPA to Juliane Matthews, Julie Vergeront, Nancy Helm, and Janis Hastings, Region 10 EPA, Re: FW: 9 April 2008 Conference Call with AK and MMS-AK
CC-28	8/25/2009	Email from Herman Wong, Region 10 EPA to Alan Schuler, DEC, Re: Liberty Ambient Pollutant Data Attachment from Herman Wong, Region 10 EPA, Re: Liberty Ambient Endicott Findings Report
CC-29	8/25/2009	Email from Thomas Damiana, AEC, to Herman Wong, Region 10 EPA, Re: Badami Station Commissioning
CC-30	8/26/2009	Email from Thomas Damiana, ADEC, to Herman Wong, Region 10 EPA, Re; @ Badami – North Slope Particulate Summary
CC-31	8/26/2009	Email from Thomas Damiana, AECOM regarding North Slope Particulate Summary (with spreadsheet data)
CC-32	8/26/2009	Email from Christopher Hall, Region 10 EPA, to Thomas Damiana, AEC, Re: FW: Shell Badami Monitoring – Installation Audit
CC-33	8/27/2009	Email from Herman Wong, Region 10 EPA to Natasha Greaves, Region 10 EPA, Re: FW: From Alan Schuler, DEC, ADEC Verification of Shell Regional Inventory Attachment 1 from Herman Wong, Region 10 EPA, Re: ADEC Verification Table Only Attachment 2 from Herman Wong, Region 10 EPA, Re: ADEC Verification POT G4 PH 10.95 Attachment 3 from Herman Wong, Region 10 EPA, Re: ADEC Verification Actual G4 PM10.95
CC-34	9/02/2009	Email from Herman Wong, Region 10 EPA to Alan Schuler, ADEC, Re: Shell Beaufort Sea OCS PSD Application; Absolute Final AIA Completeness Determination & Information and Data Request Attachment 1 from Herman Wong, Region 10 EPA, Re: Shell Beaufort Sea OCS R10-OCS + PSD Increment Baseline Approach

		Attachment 2 from Herman Wong, Region 10 EPA, Re: Shell Beaufort Sea ADEC Verification of Shell GT Attachment 3 from Herman Wong, Region 10 EPA, Re: Shell Beaufort OCS Information + Data Request
CC-35	09/04/2009	Email from Jan Hastings, EPA, to Susan Childs, Shell Offshore Inc., re: Beaufort Sea Incompleteness Determination Att. 1: Letter from Jan Hastings, EPA, to Susan Childs, Shell Offshore Inc., re: EPA Beaufort Sea Incompleteness Letter Att. 2: Air Quality Impact Analysis Comments (Att. A) Att.3: July 2, 2009 Memo from Dave Bray, EPA, to Rick Albright, EPA, and Janis Hastings, EPA re: Implementing PSD Baseline Dates, Baseline Areas, and Baseline Concentrations on the Outer Continental Shelf in Alaska Att. 4: Email string between Alan Schuler, ADEC, and Herman Wong, EPA, Kirk Winges, Environ, et al, re: ADEC Verification of Shell Regional Inventory
CC-36	9/04/2009	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: Beaufort Sea Incompleteness Determination Att. 1: Letter from Rick Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Incompleteness Determination Att. 2: Air Quality Analysis Comments (Att. A)
CC-37	9/14/2009	Email from Herman Wong, EPA, to Natasha Greaves, EPA, re: Shell Beaufort Sea OCS/PSD Application: Air Quality Impact Analysis Minutes of 09-08-09 Meeting
CC-38	9/14/2009	Email from Dave Bray, EPA Region 10, to Herman Wong, EPA Region 10, Re: Application; AQIA Minutes of 08 September 2009 Meeting
CC-39	9/17/2009	Email from Scott Winges, Shell, to Herman Wong, Region 10 EPA, Re: Regional Emissions for Short Term PM10 and SO2
CC-40	9/18/2009	Email from Alan Schuler, DEC, to Scott Winges, Shell, and Herman Wong, Region 10 EPA, Re: Regional Emissions for Short Term PM10 and SO2
CC-41	9/23/2009	Email from Alan Schuler, DEC, to Eric Hansen, Shell, Re: FW: BPX North Slope PM10 Data Attachment: CCP Site PM10
CC-42	9/23/2009	Email from Natasha Greaves, EPA, to Dave Bray, Julie Vergeront, Juliane Matthews, Pat Nair, Doug Hardesty, Nancy Helm, and Herman Wong, EPA, Re: FW: NSR Implications of the PM2.5 Standard Attachment: New Source Review Implications of the PM2.5 Ambient Air Quality Standards
CC-43	9/24/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: National Park Service (NPS) and National Forest Service (NFS) Contacts

CC-44	9/30/2009	Prepared for Shell Offshore Inc.: Outer Continental Shelf Pre-Construction Air Permit Application and Appendices, Frontier Discoverer Beaufort Sea Exploration Drilling Program
CC-45	10/01/2009	Email from Eric Hansen, Shell, to Dave Bray and Natasha Greaves, Region 10 EPA, Re; Revised BNateaufort Sea Application
CC-46	10/02/2009	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: PDF of Revised Beaufort Sea Permit
CC-47	10/02/2009	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Revised Beaufort Sea Permit
CC-48	10/07/2009	Email from Janis Hastings, EPA, to Mark Schindler, Octane, re: PDF of Revised Beaufort Sea Permit Application
CC-49	10/07/2009	Email from Mark Schindler, Octane, to Janis Hastings, EPA, Re: PDF copy of revised Beaufort Permit Application
CC-50	10/13/2009	Email from Janis Hastings, EPA, to Mark Schindler, Octane, re: PDF of Revised Beaufort Sea Permit and Meeting
CC-51	10/13/2009	Email from Natasha Greaves, EPA, to Eric Hansen, ENVIRON, Re: SOI Beaufort Sea PSD permit application
CC-52	10/19/2009	Email from Janis Hastings, EPA, to Mark Schindler, Octane, re: PDF of Revised Beaufort Sea Permit and Meeting
CC-53	10/27/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: Badami Data
CC-54	10/28/2009	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, Re: Badami Data
CC-55	10/30/09	Email from Herman Wong, Region 10 EPA, to Kirk Winges, ENVIRON, Re: Shell Beaufort Sea PSD Application; Request for Conference Call
CC-56	11/03/2009	Email from Kirk Winges, ENVIRON, to Herman Wong, EPA, Re: Road Map
CC-57	11/04/2009	Email from Herman Wong, EPA, to Natasha Greaves, EPA, re: Road Map (Errata Sheet) Att. 1: Letter from Richard Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Incompleteness Determination

CC-58	11/05/2009	Email from Mark Schindler, Octane, to Janis Hastings, EPA, Re: Badami Reports
CC-59	11/06/2009	Email from Janis Hastings, EPA, to Mark Schindler, Octane, re: Beaufort Permit Letter Att. 1: Letter from Richard Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Shell Offshore Inc. September 30, 2009 Revised PSD Permit Application for Frontier Discoverer Drill Vessel in the Beaufort Sea
CC-60	11/09/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: Badami Particulate Data
CC-61	11/09/2009	Email from Thomas Damiana, AECOM, to Herman Wong, EPA, Re: Badami Protocol Attachment: Anser Monitoring Station Location Map
CC-62	11/09/2009	Email from Mark Schindler, Octane, to Janis Hastings, EPA, Re: FWD: Badami Particulate Data
CC-63	11/13/2009	Email from Linsey DeBell, AECOM, to Chris Hall, EPA regarding Nuiqsut PM2.5 Data
CC-64	11/13/2009	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, Re: Badami Particulate Data
CC-65	11/13/2009	Email from Eric Hodek, AECOM, to Christopher Hall, EPA, Re: Badami Monitoring Station Quarterly Report (1)
CC-66	11/13/2009	Email from Eric Hodek, AECOM, to Dave Bray, EPA, Re: Badami Monitoring Station Quarterly Report (2)
CC-67	11/13/2009	Email from Eric Hodek, AECOM, to Christopher Hall, EPA, Re: Reindeer Island Monitoring Station and Oceanographic Station Quarterly Report (1)
CC-68	11/13/2009	Email from Eric Hodek, AECOM, to Dave Bray, EPA, Re: Reindeer Island Monitoring Station and Oceanographic Station Quarterly Report (2)
CC-69	11/23/2009	Email from Mary Portanova, EPA, to Juliane Matthews, EPA, Re: Fw for Record: Shell Short-term Issues
CC-70	11/24/2009	Letter from Eric Hodek, AECOM, to Nicole St. Amand, Shell, Re: October 2009 Data Summary with Attachment of Monthly Data Summaries

CC-71	11/25/2009	Letter from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: Badami Ambient Air Quality and Meteorological Monitoring Program QAPP Revision 01-Precision and Bias Assessment of PM2.5 Using a Collocated Network Sample
CC-72	11/25/2009	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: Revision to the Badami QAPP
CC-73	11/26/2009	Email from Eric Hodek, AECOM, to Christopher Hall, EPA, Re: [TRANSFER REMINDER] Badami Monitoring Station Quarterly Report (1)
CC-74	11/26/2009	Email from Eric Hodek, AECOM, to Dave Bray, EPA, Re: [TRANSFER REMINDER] Badami Monitoring Station Quarterly Report (2)
CC-75	11/26/2009	Email from Eric Hodek, AECOM, to Christopher Hall, EPA, Re: [TRANSFER REMINDER] Reindeer Island Monitoring Station and Oceanographic Station Quarterly Report (1)
CC-76	11/26/2009	Email from Eric Hodek, AECOM, to Dave Bray, EPA, Re: [TRANSFER REMINDER] Reindeer Island Monitoring Station and Oceanographic Station Quarterly Report (2)
CC-77	12/03/2009	Email from Nicole St Amand, Shell, to Janis Hastings, EPA, Re: FW: Badami Monthly Report with Attached October 2009 Badami Data Summary
CC-78	12/03/2009	Email from Eric Hodek, AECOM, to Herman Wong, EPA, Re: Badami Monthly Report Attachment: Badami October 2009 Summary
CC-79	12/04/2009	Email from Janis Hastings, EPA, to Christopher Hall and Mary Portanova, EPA, Re: Badami Monthly Report (without attachment; see attachment on 12/03/09 email from Eric Hodek, AECOM, to Herman Wong, EPA)
CC-80	12/10/09	Email from Steve Mackey, Hoefler Consulting Group, to Christopher Hall, EPA, Re: 2 <sup>nd</sup> Question on PM2.5 Monitoring Collocation for Point Lay, AK
CC-81	12/10/2009	Email from Steve Mackey, Hoefler Consulting Group, to Christopher Hall, Region 10 EPA, Re: Question on PM2.5 Monitoring Collocation for Point Lay, AK
CC-82	12/11/2009	Email from Christopher Hall, EPA, to Steve Mackey, Hoefler Consulting Group, Re: 2 <sup>nd</sup> Question on PM2.5 Monitoring Collocation for Point Lay, AK
CC-83	12/11/2009	Email from Christopher Hall, EPA, to Steve Mackey, Hoefler Consulting Group, Re: 2 <sup>nd</sup> Question on PM2.5 Monitoring Collocation for Point Lay, AK (Quick question)
CC-84	12/11/2009	Email from Steve Mackey, Hoefler Consulting Group, to Christopher Hall, EPA, Re: 2 <sup>nd</sup> Question on PM2.5 Monitoring Collocation for Point Lay, AK

CC-85	12/14/2009	Email from Janis Hastings, EPA, to Pat Nair, Natasha Greaves, Juliane Matthews, Julie Vergeront, Dave Bray, Mary Portanova, and Christopher Hall, EPA, Re:Badami November Report Attachment: Letter from Eric Hodek, AECOM, to Nicole St. Amand, Shell, Re: November 2009 Badami Data Summary
CC-86	12/21/2009	Email from Mary Portanova, EPA, to Juliane Matthews, EPA, forwarded from Kirk Wings, ENVIRON, Re: FW for the Record: Modeling Files with Attachment
CC-87	12/22/2009	Email from Eric Hodek, AECOM, to Janis Hastings, EPA, Re: Badami Monitoring Report with attached report
CC-88	12/22/2009	Email from Janis Hastings, EPA, to Mary Portanova, Juliane Matthews, Christopher Hall, Natasha Greaves and Dave Bray, EPA, Re: FW: from Eric Hodek, AECOM, Badami Monitoring Report
CC-89	12/30/2009	Email from Mark Schindler, Octane, to Natasha Greaves, EPA, re: EPA/Shell Meeting Time and Date
CC-90	1/06/2010	Email from Thomas Damiana, AEC, to Christopher Hall, EPA, Re: Badami QAPP Revision 2
CC-91	1/06/2010	Email from Eric Hodek, AECOM, to Christopher Hall, EPA, Re: Badami 4 Months Report
CC-92	1/07/2010	Email from Janis Hastings, EPA, to Mark Schindler, Octane, Re: Check-in Tomorrow Attachment 1:Fw: Part 3 Attachment List 8 30 Attachment 2: Fw: Part 3 Attachment A Attachment 3: Fw: Part 3 Attachment C – Suydam Declaration Attachment 4: Fw: Part 3 Attachment C – Wernham Declaration Attachment 5: NSB Comment Shell 2010 EP Camden Bay
CC-93	1/07/2010	Email from Janis Hastings, EPA, to Natasha Greaves, Juliane Matthews, Dave Bray, and Dan Brown, EPA, Re: Fw: 2009_0831_1805_NB_Comment Shell 2010 EP Camden Bay Attachment: FW Email 143 NSB Attachments to 2010 Camden Bay EP-EIA
CC-94	1/07/2010	Email from Christopher Hall, EPA, to Eric Hodek, AECOM, Re: Badami Hourly Data
CC-95	1/11/2010	Email from Janis Hastings, EPA, to Mark Schindler, Octane, Re: Got Your Message
CC-96	1/13/2010	Email from Susan Childs, Shell, to Janis Hastings, EPA, Re: Beaufort PSD Update Materials Attachment 1: Letter from Susan Childs, Shell, to Janis Hastings, EPA, Re: Updated commitments for Frontier Discoverer Drill

		Vessel in Beaufort Sea, Alaska Attachment 2: Changes to be Incorporated in Re-Submittal of Beaufort Sea Permit Application
CC-97	01/13/2010	Email from Natasha Greaves, EPA, to Kirk Wings, Environ, re: Access to File Transfer Portal at ENVIRON Corp.
CC-98	01/13/2010	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: Lease Blocks
CC-99	01/13/2010	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: PDF of Permit Application Att. 1: Powerpoint: Preparing PDFs for the Web
CC-100	01/13/2010	Letter from Susan Childs, Shell Offshore Inc. to Janis Hastings, EPA, re: Updated Commitments for Frontier Discoverer Drill Vessel in Beaufort Sea, Alaska Att. 1: Changes to be Incorporated in Re-Submittal of Beaufort Sea Permit Application
CC-101	1/13/2010	Email from Kirk Wings, Environ, to Dave Bray, Region 10 EPA, Re: Files have been uploaded for you
CC-102	1/13/2010	Email from Kirk Wings, Environ, to Janis Hastings, Region 10 EPA, Re: Files Have Been Uploaded for You
CC-103	1/13/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re: Fw: from Kirk Wings, Environ, For Record: Files Have Been Uploaded for You
CC-104	1/14/2010	Email from Juliane Matthews, EPA, to Mary Portanova, Herman Wong, Dave Bray, Natasha Greaves, Christopher Hall, Paul Boys, Nancy Helm, and Julie Vergeront, EPA, Re: FW: Beaufort PSD Update Materials Attachment 1: Letter from Susan Childs, Shell, to Janis Hastings, EPA, Re: Updated Commitments for Frontier Discoverer Drill Vessel in Beaufort Sea, Alaska Attachment 2: Changes to be Incorporated in Re-submittal of Beaufort Sea Permit Application
CC-105	1/14/2010	Email from Thomas Damiana, AEC, to Christopher Hall, EPA, Re. Badami Raw Data
CC-106	1/14/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AEC, Re: Badami Raw Data
CC-107	1/14/2010	Email from Eric Hodek, AECOM, to Herman Wong and Christopher Hall, Region 10 EPA, Re: Updated Data Spreadsheet for Submitted to EPA/Shell

CC-108	1/15/2010	Email from Thomas Damiana, AEC, to Christopher Hall, Region 10 EPA, Re: R10 Comments on the Badami QAPP Revision 2
CC-109	1/18/2010	Email from Eric Hansen, Environ, to Janis Hastings, EPA, re: Submittal of Permit Application Delivery [1] Att. 1: Date corrected letter of 1/18/10 from Susan Childs, Shell Offshore Inc., to Richard Albright, EPA, re: Permit Application (Revised) for Frontier Discoverer Drill Vessel in Beaufort Sea Att. 2: 1/18/09: Letter from Susan Childs, Shell Offshore Inc., to Richard Albright, EPA, re: Permit Application (Revised) for Frontier Discoverer Drill Vessel in Beaufort Sea Att. 3: Outer Continental Shelf Pre-Construction Air Permit Application and Appendices
CC-110	1/18/2010	Email from Dave Bray, EPA, to Eric Hansen, Environ, re: Delivery
CC-111	1/19/2010	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Delivery
CC-112	1/19/2010	Email from Mary Portanova, EPA, to Kirk Wingses , Environ, Re: Shell Beaufort
CC-113	1/19/2010	Email from Thomas Damiana, AEC, to Christopher Hall, EPA, Re: R10 Comments on the Badami QAPP Revision 2
CC-114	1/20/2010	Email from Kirk Wingses, Environ, to Eric Hansen, Shell, Re: Revised Spreadsheet Attachment 1: Appendix A (Revised January 5, 2010) Attachment 2: Appendix A (Revised January 5, 2010)
CC-115	1/20/2010	Email from Natasha Greaves, EPA, to Kirk Wingses, Environ, re: Shell Beaufort Sea PSD Permit Application Figure 1-1
CC-116	1/20/2010	Email from Scott Wingses, Environ, to Natasha Greaves, EPA, re: Shell Beaufort Sea PSD Permit Application [See email and attachment from 1/18/10 from Eric Hansen ]
CC-117	1/20/2010	Email from Natasha Greaves, EPA, to Scott Wingses, ENVIRON, Re: Shell Beaufort Sea PSD Permit Application Figure 1-1 [For attachment, see email from 1/18/10 from Eric Hansen, Exhibit CC-109]
CC-118	1/20/2010	Email from Kirk Wingses, ENVIRON, to Eric Hansen, ENVIRON, Mark Schindler, Octane, Scott Wingses, ENVIRON, Susan Childs, Shell, Kirk Lilley, Shell, Dave Bray, EPA, Natasha Greaves, EPA and Janis Hastings, EPA, Re: Revised Spreadsheet (Attached is a new version of Appendix A spreadsheet that should help in your review of the application) [See email and attachment of 1/20/10

		from Kirk Wings]
CC-119	1/21/2010	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Additional Copies
CC-120	1/21/2010	Email from Natasha Greaves, EPA, to Mark Schindler, Octane, re: Table of Contents with Link to Part 55 Consistency Updates for Alaska, January 21, 2010
CC-121	1/21/2010	Email from Thomas Damiana, AEC, to Christopher Hall, EPA, Re: FW: R10 Comments on the Badami QAPP Revision 2
CC-122	1/21/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AEC, Re: Badami PM2.5 Data Question
CC-123	1/21/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AEC, Re: FW: R10 Comments on the Badami QAPP Revision 2
CC-124	1/22/2010	Email from Janis Hastings, EPA, to Mark Schindler, Octane, Re: Got your message
CC-125	1/25/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: R10 Comments on the Badami QAPP Revision 2
CC-126	1/26/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, Re: R10 Comments on the Badami QAPP Revision 2
CC-127	1/27/2010	Email from Natasha Graves, EPA, to Scott Wings, Environ, re: Request for Copies of Permit Application and Modeling File CDs
CC-128	1/28/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Badami PM 2.5 Data Question
CC-129	1/29/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, Re: Badami Report
CC-130	2/02/2010	Email from Eric Hansen, Environ, to Natasha Greaves, EPA, re: PSD Contact List
CC-131	2/05/2010	Email from Eric Hansen, ENVIRON, to Janis Hastings, Natasha Greaves and Dave Bray, EPA, Re: More Copies

CC-132	2/05/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, Re: FW: R10 comments on Badami QAPP Revision 2
CC-133	2/05/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re:FW: from Kirk Wings for Record: Shell Beaufort [1]
CC-134	2/05/2010	Email from Kirk Wings, Environ, to Mary Portanova, USEPA, Re: Shell Beaufort [2]
CC-135	2/05/2010	Email from Kirk Wings, Environ, to Mary Portanova, USEPA, Re: Shell Beaufort [3]
CC-136	2/05/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re: FW; from Kirk Wings, Environ, re For Record: Shell Beaufort [4]
CC-137	2/5/2010	Email from Mary Portanova, EAP, to Juliane Matthews, EPA, Re: Fw for Record: Shell Beaufort-Nuiqsut [5]
CC-138	2/08/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re: Fw from Scott Wings, Environ, Re: for Record: Shell Beaufort – Nuiqsut?
CC-139	2/08/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re: Fw For the Record: Shell Badami - Nuiqsut
CC-140	2/08/2010	Memo from Chris Hall, EPA Region 10, to Mary Portanova, EPA Region 5, Air and Radiation Division, Subject: Badami Air Monitoring Data Review – August 15 through December 15, 2009
CC-141	2/10/2010	Email from Mary Portanova, USEPA, to Juliane Matthews, Region 10 EPA, Re: Fw email from Kirk Wings, Environ, re Fw for Record: Horizontal Spacing
CC-142	2/11/2010	Letter from Richard Albright, EPA, to Susan Childs, Shell Offshore Inc., re: Shell Offshore Inc. January 18, 2010 PSD Permit Application for Frontier Discoverer Drill Vessel in the Beaufort Sea
CC-143	2/12/2010	Email from Thomas Damiana, AEC, to Christopher Hall, Region 10 EPA, Re: Badami Data Set
CC-144	2/14/2010	Email from Thomas Damiana, AEC, to Christopher Hall, Region 10 EPA, Re: Badami QAPP
CC-145	2/14/2010	Email from Thomas Damiana, AEC, to Christopher Hall, Region 10 EPA, Re: Badami Data Report

CC-146	2/15/2010	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Beaufort Permit Statement of Basis Appendix A
CC-147	2/15/2010	Email from Natasha Greaves, EPA, to Eric Hansen, Environ, re: Beaufort Permit Statement of Basis Appendix A Att.1: Appendix A
CC-148	2/16/2010	Email from Kirk Winges, Environ, to Natasha Greaves, EPA, re: Follow-up on Cat D399, 3304 and D343 with attachments
CC-149	2/16/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, EPA, Re: Badami QAPP Attachment: Badami Ambient Air Quality and Meteorological Monitoring Station Quality Assurance Plan
CC-150	2/16/2010	Environ Email Uploaded Modeling Files. Printed files include: Revised Appendix, Appendix A and Appendix D. The following files were not printed. Data Files (OUT, INP and PLT format) Other Icebreaker Setups Nanuq Refuel Bow Washing Anchor Setting Retrieval Alternate Incinerator Configuration 1 Alternate Incinerator Configuration 2 Anchor Handler Resupply PDF Files Badami Monitoring Data Emissions Excel Files EmissionsForEPA_01132010 January Scenario Summary Original files can be found on the Chukchi Administrative Record Compact Disc at the following file path: CC - Correspondence and Communication between EPA and Shell (including Shell Contractors) (continued)\CC-150 (*Note: BSM modeling_145433 Folder includes revised versions of the above files)
CC-151	2/16/2010	Email from Kirk Winges, ENVIRON, to Natasha Greaves, EPA, Re: Files have been uploaded for you with attachments.
CC-152	2/17/2010	Email from Christopher Hall, EPA, to Thomas Damiana, AECOM, regarding Badami QAPP
CC-153	2/19/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Badami QAPP (Attached is a final digital version of the Badami QAPP with signature page included.) [See email and attachment of 2/16/10 from Thomas Damiana]

CC-154	2/24/2010	Email from Mary Portanova, USEPA, to Wong, Bray and Hastings, Region 10 EPA, Re: Conversation with Environ
CC-155	2/26/2010	Email from Mary Portanova, EPA, to Juliane Matthews, EPA, Re: Fw for Record: Bow Washing OK
CC-156	3/09/2010	Email from Kirk Wings, Environ, to Natasha Greaves, EPA, re: Request for PDF of Figure 1-2 with attachment
CC-157	3/11/2010	Email from Mary Portanova, USEPA, to Natasha Greaves and David Bray, Region 10 EPA, Re: Call with Environ re Icebreaker Position (and Viscreen) [1]
CC-158	3/11/2010	Email form Mary Portanova, EPA, to Janis Hastings, EPA, Re: Call to Environ Re: VISCREEN [2]
CC-159	3/11/2010	Email from Mary Portanova, USEPA, to Natasha Greaves and David Bray, Region 10 EPA, Re: Call with Environ re Icebreaker Position and Viscreen [3]
CC-160	3/16/2010	Email from Thomas Damiana, AECOM, to Herman Wong, Region 10 EPA, Re: Shell Reindeer Island QAPP Attachment 1: QAPP List for Herman Wong Attachment 2: Reindeer Island Meteorological Monitoring Station Quality Assurance Project Plan
CC-161	3/29/2010	Email from Thomas Damiana, AECOM, to Herman Wong, Region 10 EPA, Final Reindeer Island QAPP
CC-162	3/30/2010	Memo from Kirk Wings, Environ, to Jan Hastings, EPA, re: Shell Beaufort VISCREEN Model Results [See email and attachment of 3/16/10 from Thomas Damiana]
CC-163	4/01/2010	Email from Paul Boys to Eric Hansen Re: Test Protocol
CC-164	4/06/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Badami Q4 Report [See email and attachment of 2/16/10 from Thomas Damiana]
CC-165	4/07/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Badami Q4 Report [See email and attachment of 2/16/10 from Thomas Damiana] [1]
CC-166	4/07/2010	Email from Thomas Damiana, AECOM, to Christopher Hall, Region 10 EPA, Re: Badami Q4 Report [2]

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**Section D: Other Correspondence**

EPA Exhibit Number	Date	Document Description
D-1	10/31/2005	Letter from Colleen Burgh, EPA, to Paul Stang, MMS, Re: Notice of Intent: Outer Continental Shelf, Alaska Region, Chukchi Sea Oil and Gas Lease Sale 1993 for 2007
D-2	12/27/2006	Letter from Christine Reichgott, EPA, to John Goll, MMS, Re: Draft Environmental Impact Statement: Chukchi Sea Planning Area, Oil and Gas Lease Sale 193 and Seismic Surveying Activities in the Chukchi Sea
D-3	3/19/2008	Letter from Joyce C. Kelly to Richard A. Wayland, RE: Request for Office of Air Quality Planning and Standards support of precedent setting monitoring and modeling activities related to oil development permitting actions in Alaska.
D-4	9/23/2008	Email from Alan Schuler at AK DEC to Herman Wong, EPA Region 10. Subject: RE: Shell and Conoco Phillips AQ data collection options
D-5	9/23/2008	Email from Alan Schuler at AK DEC to Herman Wong, EPA Region 10. Subject: FW: Shell and Conoco Phillips AQ data collection options
D-6	10/14/2008	E-mail from Herman Wong, EPA to Pat Nair, EPA regarding ConcoPhillips Chukchi Sea Permitting – Wainwright Ambient Monitoring Program
D-7	10/22/2008	Email from Alan Schuler at AK DEC to Herman Wong, EPA Region 10. Subject: North Slope Background Data
D-8	11/17/2008	E-mail from Herman Wong, EPA to Christopher Hall, EPA regarding ConcoPhillips Wainwright Near-Term Monitoring Station As-Built Photos
D-9	11/18/2008	E-mail from Herman Wong, EPA to Thomas Damiana regarding ConocoPhillips Wainwright Near-Term Monitoring Station QAPP
D-10	3/8/2009	Email from Tim Martin to John Notar regarding Shell Offshore, Inc. - Alaska
D-11	4/6/2009	Letter from Shell to US Coast Guard regarding Request for Establishment of a Temporary Safety Zone around the Drillship <i>Frontier Discoverer</i> , Chukchi Sea
D-12	5/28/2009	Email from Daniel Hartung at MMS to Pat Nair, EPA Region 10. Subject: MMS Alaska Daniel Hartung RE: Question on OCS Lease Blocks

D-13	5/29/2009	E-mail from Jonathan Jemming to Nancy Helm regarding Shell Air Permit Application
D-14	6/2/2009	E-mail from Jonathan Jemming to Pat Nair, EPA regarding Shell Application – Cover Letter, Report and Appendix A
D-15	6/8/2009	Email from John Notar at NPS to Herman Wong, EPA Region 10. Subject: Fw: Shell Chukchi and Beaufort PSD Applications
D-16	6/9/2009	Email from Nancy Helm, EPA, to Jonathan Jemming, North Slope, re: Shell Application Appendix G
D-17	6/11/2009	E-mail from Daniel Hartung to Pat Nair, EPA regarding Follow Up Questions on Chukchi
D-18	6/23/2009	Email from Bryan Herczeg, EPA, to Natasha Greaves, EPA, re: Corps Permits for Offshore Exploration Att. 1: Nationwide Permit Notices (2)
D-19	6/23/2009	Email from Nancy Helm, EPA, to Juliane Matthews, EPA, re: Camdem Bay and Chukchi Exp. Plans and Environment Impact Analyses
D-20	6/24/2009	E-mail from Dave Bray to Gary A Mendivil regarding Shell’s OCS Air Permit – Beaufort Seas
D-21	7/1/2009	E-mail from Jonathan Jemming to Ashley Zanolli regarding Info Share from Barrow
D-22	7/2/2009	Email from Alan Schuler at AK DEC to Herman Wong, EPA Region 10. Subject: North Slope Air Quality Control Region
D-23	7/7/2009	E-mail from Dave Bray to Gary Mendivil regarding Shell’s OCS Air Permit – Beaufort Seas
D-24	7/15/2009	Email from Sarah Saunders, Earthjustice, to Steve Black, Dept. of Interior, re: Letter to Agencies with comments Att. 1: Letter to Liz Birnbaum, Minerals Management Service, Jane Lubchenco, NOAA, Nancy Sutley, Council of Environmental Quality, Sue Hamilton, USFWS, Lisa Jackson, EPA
D-25	7/16/2009	E-mail from Molly Holt to Edmund Fogels regarding Call to discuss EPA’s CZMA responsibilities
D-26	7/16/2009	E-mail from Jeffery Walker to Meg Silver regarding Call to discuss EPA’s CZMA responsibilities

D-27	7/30/2009	Letter from the Congress of the United States to EPA
D-28	8/4/2009	E-mail from Alan Schuler to Herman Wong, EPA regarding North Slope Data
D-29	8/5/2009	Email from John Notar at NPS to Herman Wong, EPA Region 10. Subject: Re: Shell Chukchi and Beaufort PSD Applications
D-30	8/5/2009	EPA Letter to Earthjustice Regarding Earthjustice's 7/15/09 to MMS, USFWS, NOAA, EPA, and CEQ's Administrators
D-31	8/10/2009	Fax of Letter from Earthjustice to EPA Regarding the Chukchi and Beaufort Permit Application
D-32	8/10/2009	Fax Transmittal Letter from Erik Grafe, Earthjustice, to Natasha Greaves, Pat Nair, EPA, re: Shell Gulf of Mexico's Applications for Air Quality Permits for Exploration Drilling in the Chukchi and Beaufort Seas 2010
D-33	8/12/2009	Email from Alan Schuler at AK DEC to Herman Wong, EPA Region 10. Subject: PM2.5 Data
D-34	8/12/2009	E-mail from Megan Williams to Pat Nair, EPA regarding EPA contact
D-35	8/19/2009	E-mail from Brad Thomas, ConocoPhillips Alaska regarding Collocated PM 2.5 Monitors with Attachment
D-36	8/20/2009	Email from Brad Thomas, ConocoPhillips Alaska to EPA regarding Collocated PM 2.5
D-37	8/20/2009	EPA Letter to Congressman Don Young; Senator Mark Begich; and Senator Lisa Murkowski
D-38	8/21/2009	EPA Letter to Earthjustice Regarding their 8/10/09 Letter Regarding the Chukchi and Beaufort Permit Application
D-39	8/24/2009	E-mail from Gary Mendivil to Suzanne Skadowski regarding Chukchi Sea OCS/PSD proposed permit Information meetings and Public hearings
D-40	8/28/2009	Email from Dianne Soderlund, EPA, to Suzanne Skadowski, EPA, re: Chukchi Informational Meetings and Public Hearings—ADEC

D-41	9/2/2009	Email from Theodore Rockwell, EPA, to Andy Mack, North Slope, re: Shell EP/Camden Bay – NSB Comments – Barrow Meeting Opportunities [3]
D-42	9/11/2009	Letter from Matthew Cohen, Stoel Rives, LLP, to Bill Harnett, EPA, re: PSD Increment Consumption on the Outer Continental Shelf Att. 1: July 2, 2009 Memo from Dave Bray, EPA, to Rick Albright, Janis Hastings, EPA, re: Clarification on EPA Implementation of PSD Increments on the OCS in Alaska Att. 2: EPA Statement of Basis for Proposed Outer Continental Shelf (Attachment B)
D-43	9/29/2009	Email from Matt Cohen for ConocoPhillips re Comment Period Extension Requests
D-44	10/2/2009	Email from Natasha Greaves, EPA, to Jonathan Jemming, North Slope, re: Air News Release (HQ): New EPA Rule Will Require Use of Best Technologies to Reduce Greenhouse Gases from Large Facilities Att. 1: News Release of New EPA Rule
D-45	10/2/2009	Email from Jonathan Jemming, North Slope, to Bessie O'Rourke, North Slope, re: EPA Withdraws Bush-Era Oil, Gas "Aggregation" Permitting Policy Att. 1: Sept. 22, 2009 Letter from Gina McCarthy, Assistant Administrator, EPA, to Regional Administrators, Regions 1-X, re: Withdrawal of Source Determinations for Oil and Gas Industries
D-46	10/8/2009	Email from Jonathan Jemming, North Slope, to Natasha Greaves, EPA, re: EPA: Reconsideration of Interpretation of Regs that Determine Pollutants Covered by Federal PSD Permit Program Att. 1: Federal Register Notice
D-47	10/26/2009	Email from Brad Thomas, ConocoPhillips Alaska regarding Deadhorse Update
D-48	11/13/2009	Letter from Jeffrey Walker, U.S. Dept. of Interior to Judith Bittner, State Historic Preservation Officer, Alaska regarding archaeological analysis of the OCS.
D-49	11/13/2009	Email from Vikram Kashyap, Trinity Consultants, to Natasha Greaves, EPA, re: Question on PSD Exemptions for OCS Sources
D-50	11/16/2009	Email from Natasha Greaves, EPA, to Vikram Kashyap, Trinity Consultants, re: Attachment to Question on PSD Exemptions for OCS Sources Att. 1: 10/9/1979 Letter from William A. Spratlin, Jr., Chief, EPA, to Harvey D. Shell, Shell Engineering and Associates, re: PSD Review
D-51	11/17/2009	Email and letter from Jonathan Jemming, North Slope Borough Office of the Mayor, to Suzanne Skadowski Re: Shell Offshore 2010 Chukchi Sea OCS Exploration Plan and Environmental

		Impact Statement
D-52	12/2/2009	Email from Julie Vergeront, EPA, to Janis Hastings, EPA, re: Call from Jonathan Jemming
D-53	12/7/2009	Email from Nancy Helm, EPA, to Natasha Greaves, EPA, re: Revised Shell Material for Workshop Sent by Jonathan Jemming Att. 1: Workshop Material: Chukchi and Beaufort PSD Air Permits, Dec. 1, 2009
D-54	12/7/2009	Letter to Susan Childs, Shell from Jeffery Walker, US Dept. of Interior, MMS, regarding conditional approval of the Shell proposed 2010 Outer Continental Shelf Lease Exploration Plan
D-55	12/7/2009	MMS-Alaska OCS Region Finding of No Significant Impact, 2010 Exploration Drilling Program, Burgerm Crackerjack, and SW Shoebill Prospects Chukchi Sea Outer Continental Shelf, Alaska
D-56	12/9/2009	Email from Juliane Matthews, EPA, to Kristi Smith, EPA, re: MMS Polar Bear Critical Habitat Biological Evaluation. Att. 1: Memo from John Goll, Regional Director, MMS, to Regional Director, USFWS, re: Section 7 Endangered Species Act – Proposed Polar Bear Critical Habitat
D-57	12/16/2009	Letter from Jeff Walker, US Dept. of Interior MMS, to Julie Vergeront, EPA regarding MMS's view on "regulated or authorized under OCSLA"
D-58	12/16/2009	Letter from Gregg M. Worley, EPA, to Darrell E. Hollek, VP of GoM Operations, Anadarko Petroleum Corporation, Re: Phoenix Project, Lloyd Ridge 410 Well #1, Air Permit Application
D-59	1/8/2010	Email from Eric Hansen, Environ to Mark Schindler, Octane and Janis Hastings, EPA, BACT
D-60	1/8/2010	Email from Mark Schindler, Octane, to Janis Hastings, EPA, EPA proposes new modified air quality permit to Shell Gulf of Mexico, Chukchi Sea, Alaska
D-61	1/11/2010	Email from Damiana to Christopher Hall re Deadhorse Sampling Frequency
D-62	1/11/2010	Email from Damiana to Herman Wong re Wainwright Near-Term Nov and Dec Preliminary Data
D-63	1/15/2010	Letter from Suzanne Skadowski, EPA to David Hobstetter, Earthjustice Re: Chukchi Record Request forwarding Permit Application Materials

D-64	1/15/2010	E-mail from David Hobstetter, Earth Justice to Suzanne Skadowski, EPA Re: Shell Chukchi OCS/PSD permit documents request
D-65	1/29/2010	Letter from Suzanne Skadowski, EPA to Jonathan Jemming and Tanya Sanerib Re: Permit Application Materials
D-66	1/29/2010	E-mail from Suzanne Skadowski, EPA to Jonathan Jemming and Tanya Sanerib Re: Request for Record (Shell Chukchi OCS/PSD) and Re: Follow-up and Request for Record
D-67	1/29/2010	Letter from EPA to Jonathan Jemming and Tanya Sanerib, Re: Resending Permit Application Materials in CD
D-68	2/5/2010	Letter from North Slope Borough Planning and Community Services Department to Gary Mendivil and Nina Brudie, Re: NSB Comments on ACMP Consistency-AIR QUALITY CONCERNS Shell Offshore, Inc. 2010 Outer Continental Shelf Lease Exploration Plan, Chukchi Sea, Alaska, State ID NO. AK0911-01OG
D-69	2/9/2010	Email from Suzanne Skadowski to David Hobstetter, Re: requested Shell Chukchi application on file
D-70	2/16/2010	Email from Jan Hastings, EPA, to Dianne Soderlund, EPA, re: 10am Call Today, Seattle Time
D-71	2/22/2010	Letter from Lisa Jackson to Senator Jay D. Rockefeller IV in response to his letter of 2/19/2010.
D-72	3/03/2010	Email from Suzanne Skadowski, Region 10 EPA, to Jonathan Jemming, NSB, Re: EPA Shell Chukchi Web Page
D-73	3/04/2010	Email from Suzanne Skadowski, Region 10 EPA, to Patrick Durrer, Re: Recording of EPA Shell Chukchi Feb. 16 Public Hearing Teleconference
D-74	3/17/2010	Email from Mark Prettyman, DNREC, to Dave Bray, Region 10 EPA, Re: Shell Permits Email Review. Attachment 1: Stationary Generators- OTC Model Rule- Draft 2 Attachment 2: Emissions Standards Comparison – Engines and Generators Attachment 3: OTC Pechan Reports
D-75	3/18/2010	Email from Suzanne Skadowski, Region 10 EPA, to Tony Mendoza, Crowell & Moring, LLP, Re: AR Request for shell Chukchi & Beaufort. Attachment 1: Letter from Suzanne Skadowski to Tony Mendoza, Permit Administrative Records as requested for EPA Proposed OCS/PSD Air Permits: Shell Gulf of Mexico, Inc./Shell Offshore, Inc. – Chukchi Sea/Beaufort Sea

D-76	3/29/2010	Email from Nancy Helm to Julie Vergeront transmitting 2/18/10 email from Nancy Helm, Region 10 EPA, to Jack Schaefer, Councilmember of the Inupiat Community of the Arctic Slope Re: Air Quality Modeling Question
D-77	3/26/2010	Email from Janis Hastings, EPA to Julie Vergeront, EPA, forwarding email from David Dickson, Alaska Wild, to Drew McConville, EPA, Re: FW Following up on PSD Permits for Shell exploratory drilling in the Arctic Ocean Attachment: 03/22/2010 Letter from Conservationists to EPA Region 10, Re: Proposed OSC/PSD Permit Number R10OCS/PSD-AK-2010-01

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**Section DD. Other Correspondences**

EPA Exhibit Number	Date	Document Description
DD-1	5/29/2009	Letter from Edward Itta, Mayor, North Slope Borough, to Honorable Ken Salazar, Secretary, Dept. of Interior, re: Public Participation and Environmental Review Process
DD-2	6/12/2009	Email from Nancy Helm, EPA, to Jonathan Jemming, North Slope, re: Beaufort Application Att. 1: Outer Continental Shelf Pre-Construction Air Permit Application
DD-3	8/27/2009	Email from Diane Soderlund, EPA, to Jeffrey Walker, MMS, re: Proposed Meeting on Shell's EP
DD-4	8/27/2009	Email from Jonathan Jemming, North Slope Borough, to Theodore Rockwell, Re: Meeting on Shell's Beaufort Sea, Camden Bay EP
DD-5	8/28/2009	Email from Jeffrey Walker, MMS, to Dianne Soderlund, EPA, re: Proposed Meeting on Shell's EP
DD-6	9/02/2009	Email from Karen Crain, North Slope Borough, to Hanh Shaw, EPA, re: Sept. 2, 2009 Telephonic Meeting re: Shell Camden Bay EP [1]
DD-7	9/02/2009	Email from Michael Lidgard, EPA, to Karen Crain, North Slope Borough, re: Sept. 2, 2009 Telephonic Meeting re: Shell Camden Bay EP [2]
DD-8	9/02/2009	Email from Natasha Greaves, EPA, to Karen Crain, North Slope Borough, re: Sept. 2, 2009 Telephonic Meeting re: Shell Camden Bay EP [4]
DD-9	9/02/2009	Email Scheduler from Karen Crain, North Slope, to Natasha Greaves, EPA, re: Meeting with Andrew Mack, Special Assistant to Mayor Itta, North Slope Borough
DD-10	9/18/2009	Email from Linda Bell, ADEC, to undisclosed recipients, re: NSR Implications of the PM2.5 Standard Att. 1: New Source Review Implications of the PM2.5 Ambient Air Quality Standards
DD-11	9/21/2009	Letter from Nina Brudie, Alaska Dept. of Natural Resources, to Susan Childs, Shell Offshore Inc., re: Shell 2010 Camden Bay Exploration, Beaufort Sea Att. 1: Sept. 1, 2009 letter from Nina Brudie, Alaska Dept. of Natural Resources, to Susan Childs, Shell Offshore Inc., re: 2010 Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska, Start of ACMP Review Att. 2: Public Notice: Shell Camden Bay Offshore Exploration,

		Beaufort Sea
DD-12	9/21/2009	Email from Jonathan Jemming, NSB, to Nancy Helm, EPA, Re: FW: 2009_0918_Shell Attachment: Letter from Susan Childs, Shell, to Jeffrey Walker, MMS, Re: MMS Request for Amendment to Shell Offshore Inc., 2010 Outer Continental Shelf Exploration Plan, Camden Bay, Beaufort Sea, Alaska
DD-13	9/24/2009	Email from Jonathan Jemming, North Slope, to Natasha Greaves, EPA, re: Clarification of Document (MMS Request for Amendment to the Shell Offshore Inc., 2010 Outer Continental Shelf Exploration Plan, Camden Bay)
DD-14	9/30/2009	Email from Natasha Greaves, EPA, to Jonathan Jemming, North Slope, re: Letter to MMS re: Shell's Beaufort Sea Exploration Plan Att 1: Sept. 28, 2009 Letter from David Dickson, Alaska Wilderness League, Rebecca Noblin, Center for Biological Diversity, Charles M. Clusen, Natural Resources Defense Council, Eric F. Myers, Audubon Alaska, Erik Grafe, Earthjustice, Pamela Miller, Northern Alaska Environmental Center, to Jeffrey Walker, John Goll, Minerals Management Service re: Shell Offshore Inc. Proposed 2010 Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska
DD-15	10/9/2009	Email from Jonathan Jemming, North Slope, to Jeffrey Walker, MMS, re: North Slope Borough Comments – Amended Camden Bay EP Att. 1: Oct. 9, 2009 Letter from Edward S. Itta, Mayor, North Slope Borough, to John Goll, Jeffrey Walker, MMS, re: Shell Offshore Inc.'s 2010 Camden Bay Outer Continental Shelf Lease Exploration Plan, Alaska (June 2009 and Sept. 2009) [See 11/09/09 email and attachment from Ben Green]
DD-16	11/04/2009	Email from Nina Brudie, Alaska Dept. of Natural Resources, to Susan Childs, Shell Offshore Inc., re: Shell Camden Bay Exploration – Restart of ACMP Review Att. 1: Letter from Nina Brudie, Alaska Dept. of Natural Resources, to Susan Childs, Shell Offshore Inc., re: Shell 2010 Camden Bay Exploration, Beaufort Sea Att. 2: Letter from Graham Wood, ADEC, re: Shell Offshore Inc. Oil Discharge Prevention and Contingency Plan for Beaufort Sea Exploration
DD-17	11/06/2009	Email from Nina Brudie, Alaska Dept. of Natural Resources, to Susan Childs, Shell Offshore Inc., re: Comments received, Shell 2010 Camden Bay Exploration
DD-18	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration

		Att. 1: Arctic Offshore Oil and Gas Development Policy Positions Att. 2: Letter from Daniel W. Forster, Director, to Nina Brudie, ADNR, re: NSB Comments on Consistency with ACMP Enforceable Policies
DD-19	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration Att. 1: July 27, 2007 Letter from Ed Fogels, Alaska Dept. of Natural Resources, to Greg Horner, ASRC Energy Services, and Susan Childs, Shell Offshore, re: Final Consistency Response Att. 1: Alaska Coastal Management Program Final Consistency Response Concurrence Att. 2: Commissioner's Finding of Fact and Decision Att. 3: ACMP Consistency Determination
DD-20	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration Att. 1: 8/31/09 Letter from Edward S. Itta, Mayor, North Slope Borough, to John Goll, Minerals Management Service, re: Shell Offshore 2010 Outer Continental Shelf Lease Exploration Plan and Environmental Impact Assessment
DD-21	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration Att. 1: Letter from Dan Forster, Director North Slope Borough, to Gary Mendivil, Alaska Dept. of Environmental Conservation, Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on ACMP Consistency – ODPCP Concerns
DD-22	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration Att. 1: EcoHealth: Inupiat Health and Proposed Alaskan Oil Development: Results of the First Integrated Health Impact Assessment/Environmental Impact Statement for Proposed Oil Development on Alaska's North Slope
DD-23	11/09/2009	Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration Att. 1: July 27, 2007 Letter from Ed Fogels, Alaska Dept. of Natural Resources, to Greg Homer, ASRC, Susan Childs, Shell Offshore Inc, re: Final Consistency Response Att. 1: Final Consistency Response—Attachment 1 Att. 2: Commissioner's Finding of Fact and Decision –Attachment 2

		<p>Att. 3: ACMP Consistency Determination</p> <p>Att.4: Letter from Susan L. Harvey, Harvey Consulting, LLC, to Harold Curran, North Slope Borough Mayor's Office, re: Review of Shell Exploration and Production Company's Aug. 2008 Analysis</p> <p>Att. 5: Integrating Human Health into Environmental Impact Assessment by Rajiv Bhatia and Aaron Wernam</p>
DD-24	11/09/2009	<p>Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration (email #1 of 3)</p> <p>Att. 1: November 9, 2009 Letter from Dan Forster, North Slope Borough, to Gary Mendivil, ADEC, and Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on ACMP Consistency – Water Quality Concerns</p>
DD-25	11/09/2009	<p>Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration (email #1 of 4)</p> <p>Att. 1: 8/31/09 Letter from Edward S. Itta, Mayor, North Slope Borough, to John Goll, MMS, re: Shell Offshore 2010 Outer Continental Shelf Lease Exploration Plan and Environmental Impact Assessment</p> <p>Att. 2: Letter from Daniel W. Forster, North Slope Borough, to Gary Mendivil, ADEC, Nina Brudie, ADNR, re: NSB Comments on ACMP Consistency –Air Quality Concerns</p>
DD-26	11/09/2009	<p>Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration (email #2 of 4)</p> <p>Att. 1: Oct. 20, 2009 Letter from Harry Brower, Alaska Eskimo Whaling Commission, Doreen Lampe, Inupiat Community of the Arctic Slope, Edward S. Itta, North Slope Borough, to Pat Nair, Nancy Helm, Shell Chukchi OCS Air Permit, re: Shell Gulf of Mexico/Shell Offshore Inc.'s Application for a Chukchi Sea Clean Air Act Permit</p> <p>Att. 2: Health Impacts</p> <p>Att. 3: Oct. 9, 2009 Letter from Edward S. Itta, Mayor, North Slope Borough, to John Goll, Jeffrey Walker, Minerals Management Service, re: Shell Offshore Inc.'s 2010 Camden Bay Outer Continental Shelf Lease Exploration Plan, Alaska (June 2009 and September 2009)</p> <p>Att. 4: AEW, ICAS, and North Slope Borough Comments re: Shell Gulf of Mexico and Shell Offshore Inc., Application for an OCS PSD Permit under the Clean Air Act for It's Chukchi Sea Operations</p>

DD-27	11/09/2009	<p>Email from Ben Greene, North Slope, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB Comments on Consistency with ACMP Enforceable Policies, Shell 2010 Camden Bay Exploration (email #3 of 3 (not 4))</p> <p>Att. 1: : Oct. 9, 2009 Letter from Edward S. Itta, Mayor, North Slope Borough, to John Goll, Jeffrey Walker, Minerals Management Service, re: Shell Offshore Inc.'s 2010 Camden Bay Outer Continental Shelf Lease Exploration Plan, Alaska (June 2009 and September 2009)</p> <p>Att. 2: July 27, 2007 Letter from Ed Fogels, Alaska Dept. of Natural Resources, to Greg Horner, ASRC Energy Services, Susan Childs, Shell Offshore, Inc., re: Final Consistency Response</p> <p>Att. 3: Final Consistency Response Concurrence (Attachment 1)</p> <p>Att. 4: DNR Commissioner's Finding of Fact and Decision (Attachment 2)</p> <p>Att. 5: ADEC Finds of Consistency (Attachment 3)</p>
DD-28	11/18/2009	<p>Email from Suzanne Skadowski, EPA, to Janis Hasting, EPA, re: FYI MMS Letter to Shell and Delegation Letter on Shell EP</p> <p>Att. 1: Letter from John Goll, MMS, to Peter Slaiby, Shell Alaska, re: Responses from Shell</p> <p>Att. 2: Letter from U.S. Congress to Ken Salazar, USDOJ</p>
DD-29	12/9/2009	<p>Email from Jonathan Jemming, North Slope Borough, to Nina Brudie, Alaska Dept. of Natural Resources, re: NSB ACMP Elevation Request – Shell 2010 Camden Bay Exploration Plan</p> <p>Att. 1: North Slope Borough's Request for Elevation</p>
DD-30	12/10/2009	<p>Email from Nina Brudie, Alaska Dept. of Natural Resources, to Natasha Greaves, EPA, re: : NSB ACMP Elevation Request – Shell 2010 Camden Bay Exploration Plan</p>
DD-31	12/11/2009	<p>Letter from Eric Hodek, AECOM, to Nicole St Amand, Shell, Re: November 2009 Badami Summary</p>
DD-32	12/17/2009	<p>Email from Natasha Greaves, EPA, to Jonathan Jemming, North Slope Borough, re: Info Request and Update</p> <p>Att. 1: Letter from Matthew Cohen, Stoel Rives LLP, to Bill Harnett, EPA, re: PSD Increment Consumption on the Outer Continental Shelf</p> <p>Att. 2: Memo from David Bray, EPA, to Rick Albright, Janis Hastings, EPA, re: Implementing PSD Baseline Dates, Baseline Areas, and Baseline Concentrations on the Outer Continental Shelf in Alaska (draft)</p> <p>Att. 3: EPA Statement of Basis or Proposed Outer Continental Shelf Prevention of Significant Deterioration</p> <p>Att. 4: Sierra Club, Northwest Environmental Defense Center, Friend of the Columbia Gorge, Columbia Riverkeeper, Hells Canyon</p>

		Preservation Council v. Portland General Electric Co., U.S. District Court, District of Oregon, Case No. CV 08-1136-HA
DD-33	12/17/2009	Email from Jonathan Jemming, North Slope, to Natasha Greaves, EPA, re: Info Request and Update
DD-34	1/06/2010	Email from James Lusher, Minerals Management Service, to Dianne Soderlund, EPA, re: Pt. 1 – NSB Comment.2010.Camden Bay EP/EIA Att. 1: 8/31/09 North Slope Borough Comments on Shell Camden Bay Exploration Plan Att. 2: Part 3: NSB Attachment List, Shell 2010 Camden Bay EP NSB Review Att. 3: 5/29/09 Letter from Edward Itta, Mayor, North Slope Borough, to Ken Salazar, USDO, re: Request for Public Participation and Environmental Review Att. 4: Declaration of Robert Suydam Att. 5: Declaration of Aaron Wernham Att. 6: Email – Part 2 Att. 7: Email from Daniel Hartung to Mary Felter, re: NSB’s Camden Bay EP/EIA comments
DD-35	1/7/2010	Fw: Email from Natasha Greaves, EPA to Mary Portanova EPA, forwarding 8/26/09 email from Alan Shuler, ADEC to Herman Wong, EPA re: ADEC Verification of Shell Regional Inventory
DD-36	2/17/2010	Email from Drew McConville, EPA, to Anna Wood, Janis Hastings, EPA re: Draft Meeting Notes
DD-37	3/2/2010	Letter from Janis Hastings, EPA, to Harold Curran, re: NSB 15-day comment extension request - EPA response letter
DD-38	3/03/2010	Email from Skadowski, EPA, to Jonathan Jemming, NSB, Re: FW: Camden Bay Proposed Air Permit Request
DD-39	3/16/2010	Email from Suzanne Skadowski, EPA, to Jonathan Jemming, re: Camden Bay Proposed Air Permit – Request for Appendices to Statement of Basis
DD-40	3/23/2010	Email from Nicole Whittington-Evans, The Wilderness Society, to R10 OCS Air Permits, re: Comments

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**Section E: Endangered Species Act/ Essential Fish Habitat**

EPA Exhibit Number	Date	Document Description
E-1	08/1993	U.S. Dept. of Interior, Mineral Management Service, August 1993. Guidelines for Oil and Gas Operations in Polar Bear Habitats, AK OCS Study, MMS93-0008
E-2	8/2/2006	71 Federal Register 43926 (August 2, 2006), Final Rule, Marine Mammals; Incidental Take During Specified Activities
E-3	12/21/2006	Range-Wide Status Review of the Polar Bear ( <i>Ursus maritimus</i> ) prepared by Scott Schliebe, Thomas Evans, Kurt Johnson, Michael Roy, Susanne Miller, Charles Hamilton, Rosa Meehan and Sonja Jahrsdoerfer, U.S. Fish and Wildlife Service
E-4	2007	The Marine Mammal Protection Act of 1972, As Amended 2007
E-5	1/9/2007	72 Federal Register 1064 (January 9, 2007), Proposed Rule to List the Polar Bear ( <i>Ursus maritimus</i> ) as Threatened Throughout Its Range
E-6	1/30/2007	Letter from Robert Mecum, NMFS to John Goll, MMS, re MMS Draft EIS for Chukchi Planning Area
E-7	3/28/2007	Biological Opinion for Chukchi Sea Planning Area, Oil and Gas Lease Sale 193 and Associated Seismic Surveys and Exploratory Drilling
E-8	05/2007	Final EIS Chukchi Sea Planning Area, OCS EIS/EA MMS 2007-026 (Volume 1). File not printed. See Chukchi Administrative Record Compact Disc at the following file path: E - Endangered Species Act/ Essential Fish Habitat/E8.
E-9	05/2007	Final EIS Chukchi Sea Planning Area, OCS EIS/EA MMS 2007-026 (Volume 2). File not printed. See Chukchi Administrative Record Compact Disc at the following file path: E - Endangered Species Act/ Essential Fish Habitat/E9.
E-10	05/2007	Final EIS Chukchi Sea Planning Area, OCS EIS/EA MMS 2007-026 (Volume 3). File not printed. See Chukchi Administrative Record Compact Disc at the following file path: E - Endangered Species Act/ Essential Fish Habitat/E10.
E-11	05/2008	Fish and Wildlife Service (FWS) "Polar Bear ( <i>Ursus maritimus</i> )"
E-12	5/14/2008	FWS Memorandum Re: "Expectations for Consultations on Actions that Would Emit Greenhouse Gases"

E-13	5/15/2008	73 Federal Register 28212 (May 15, 2008), Final Rule, Determination of Threatened Status for the Polar Bear ( <i>Ursus maritimus</i> ) Throughout Its Range
E-14	5/15/2008	73 Federal Register 28306 (May 15, 2008), Interim Final Rule, Special Rule for the Polar Bear
E-15	6/3/2008	Programmatic Biological Opinion for Polar Bears on Chukchi Sea Incidental Take Regulations
E-16	6/11/2008	73 Federal Register 33212 (June 11, 2008), Final Rule, Marine Mammals; Incidental Take During Specified Activities
E-17	7/17/2008	Biological Opinion for Oil and Gas Leasing and Exploration Activities in the U.S. Beaufort and Chukchi Seas, Alaska; and Authorization of Small Takes Under the Marine Mammal Protection Act
E-18	1/8/2009	Letter from Rose Meehan to Susan Childs, Re: Response to November 13, 2008 request for Letters of Authorization for the Incidental and Intentional take of Polar Bears in regard to the Shell Offshore, Inc. 2009 Beaufort Sea On-Ice Argos data and Buoy Deployment Program
E-19	05/2009	Shell Exploration Plan, 2010 Exploration Drilling Program OCS Lease Sale 193, Chukchi Sea (Volumes 1 - 3). See Chukchi Administrative Record Compact Disc at the following file path: E - Endangered Species Act/ Essential Fish Habitat/E19.
E-20	6/26/2009	Letter from Robert Meehan, NMFS, to John Goll, MMS Re: Essential Fish Habitat
E-21	07/2009	Shell Exploration Plan, 2010 Exploration Drilling Program OCS Lease Sale 193, Chukchi Sea. Pages 1-177 are printed. Pages 178-143 not printed. See Chukchi Administrative Record Compact Disc at the following file path: E - Endangered Species Act/ Essential Fish Habitat/E21.
E-22	7/27/09	E-mail from Liz Doyle, EPA to Dan Brown regarding Your Request (with attachment of results from Science Direct)
E-23	9/3/2009	Memorandum from Deborah Rocque, U.S. Fish and Wildlife Service, to John Goll, MMS, Re, Endangered Species Act, Section 7 Biological Opinion for Beaufort and Chukchi Sea Program Area lease sales and associated seismic surveys and exploratory drilling (with attached Biological Opinion)
E-24	9/4/2009	Letter from Janis Hastings, EPA R10, to Rosa Meehan, U.S. Fish and Wildlife Service, Anchorage, AK, re: Informal Consultation Att.: Evaluation and Basis of EPA R10's Determination Regarding Consultation Obligations

E-25	9/4/2009	Letter from Janis Hastings, EPA R10, to Deborah Rocque, U.S. Fish and Wildlife Service, Fairbanks, AK, re: Informal Consultation Att.: Evaluation and Basis of EPA R10's Determination Regarding Consultation Obligations
E-26	9/4/2009	Letter from Janis Hastings, EPA R10, to Robert D. Mecum, NOAA, Att.: Evaluation and Basis of EPA R10's Determination Regarding Consultation Obligations
E-27	9/23/2009	Letter from Deborah Rocque, U.S. Fish and Wildlife Service, Fairbanks, AK, to Janis Hastings, EPA R10, re: Shell Offshore Inc's Permit Request for Exploratory Drilling in the Chukchi Sea
E-28	9/24/2009	Letter from Janis Hastings, EPA R10, to Robert D. Mecum, NOAA, re: Clarification of EPA Determinations Regarding Potential Effects of CAA Permitting Action on Threatened and Endangered Species within Jurisdiction Att.: Evaluation and Basis of EPA R10's Determination Regarding Consultation Obligations
E-29	10/26/2009	Letter from Robert Mecum, NOAA, to Janis Hastings re: 09/24/2009 letter from the EPA R10.
E-30	12/3/2009	Letter from John Goll, MMS to Regional Director, U.S. Fish and Wildlife Service, Alaska Region, regarding Section 7 Endangered Species Act – Proposed Polar Bear Critical Habitat
E-31	3/29/2010	Memo from Richard Albright, Chukchi GHG and ESA Section 7(a)(2) Compliance for Shell Chukchi OCS Permit
E-32	1/19/2010	Email from Julie Vergeront, Region 10 EPA, to Juliane Matthews, Region 10EPA, forwarding 12/08/09 email from Jeffrey Walker, MMS, to Dan Brown, EPA, re MMS Polar Bear Critical Habitat Biological Evaluation Attachment: Memorandum fro John Goll, MMS, to Regional Director, U.S. Fish and Wildlife Service, Alaska Region

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**Section EE**

EPA Exhibit Number	Date	Document Description
EE-1	6/2009	2010 Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska
EE-2	6/23/2009	Email from Nancy Helm, EPA, to Julie Vergeront, EPA, re: 2010 OCS Exploration Plan Camden Bay PUBLIC COPY Att. 1: Public Information Copy: 2010 Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska (5/09)
EE-3	9/04/2009	Letter from Jeffrey Walker, MMS, to Susan Childs, Shell, Re: MMS Request for Amendment to Shell Offshore Inc., Beaufort Sea 2010 Outer Continental Shelf Lease Exploration Plan (EP), Camden Bay, Alaska
EE-4	9/18/2009	Letter from Susan Childs, Shell, to Jeffrey Walker, MMS, Re: MMS Request for Amendment to the Shell Offshore Inc., 2010 Outer Continental Shelf Exploration Plan, Camden Bay, Beaufort Sea, Alaska
EE-5	9/18/2009	Letter from Jeffrey Walker, MMS, to Susan Childs, Shell, Re: Minerals Management Service (MMS) Request for Amendment to the Shell Offshore Inc., Beaufort Sea 2010 Outer Continental Shelf Lease Exploration Plan (EP), Camden Bay, Alaska
EE-6	10/20/2009	Email from Jonathan Jemming, NSB, to Nancy Helm, EPA, Re: MMS Approves Shell Beaufort Sea Exploration Plan Attachment 1: Environmental Assessment Shell Offshore Inc., 2010 Outer Continental Shelf Lease Exploration Plan, Camden Bay, Alaska Attachment 2: Minerals Management Service – Alaska OCS Region, Finding of No Significant Impact Attachment 3: Letter from Jeffrey Walker, MMS, to Susan Childs, Shell, Re: MMS Approval of EP Subject to Conditions
EE-7	3/1/2010	Letter from Janis Hastings, EPA, to Deborah Rocque, Rosa Meehan, USFWS, re: Basis for Evaluating Potential Effects of Air Permitting Action
EE-8	3/1/2010	Letter from Janis Hastings, EPA, to Robert Mecum, NOAA, re: Basis for Evaluating Potential Effects of Air Permitting Action
EE-9	3/30/2010	Letter from James W. Balsiger, US Dept of Commerce National Oceanic and Atmospheric Administration, Alaska Region, to Janis Hastings, Region 10 EPA, Re: The Potential Effects on Endangered and Threatened Species and Essential Fish Habitat Due to Shell Beaufort Permit

EE-10	4/05/2010	Letter from Ted Swerm, Endangered Species Branch Chief, to Janis Hastings, EPA, Re: Shell's Offshore Permit Request for Exploratory Drilling in the Beaufort Sea
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**Section F: Environmental Justice**

EPA Exhibit Number	Date	Document Description
F-1	2/16/1994	Executive Order 12898: Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, 59 Fed. Reg. 7629
F-2	4/1/1996	1996 Environmental Justice Implementation Plan- EPA/300-R-96-004
F-3	1999	Lazarus, Richard James and Tai, Stephanie, Integrating Environmental Justice into EPA Permitting Authority (2000). Ecology Law Quarterly Vol. 26, pp. 617,
F-4	7/20/2000	Environmental Justice in the Permitting Process, EPA/300-R-00-004
F-5	11/6/2000	Executive Order 13175: Consultation and Coordination with Indian Tribal Governments, 65 Fed. Reg. 67249
F-6	11/22/2000	Guide on Consultation and Collaboration with Indian Tribal Governments and the Public Participation of Indigenous Groups and Tribal Members in Environmental Decision Making
F-7	12/1/2000	Memorandum from Gary S. Guzy, General Counsel, Office of General Counsel, re: EPA Statutory and Regulatory Authorities Under Which Environmental Justice Issues May Be Addressed in Permitting
F-8	12/1/2001	Report by NAPA for EPA: Environmental Justice in EPA Permitting – Reducing Pollution in High-Risk Communities is Integral to the Agency’s Mission.
F-9	11/1/2004	EJ Toolkit – Toolkit for Assessing Potential Allegations of Environmental Injustice. EPA 300-R-04-002.
F-10	11/4/2005	Memorandum from EPA Administrator Stephen L. Johnsonre: Reaffirming EPA’s Commitment to Environmental Justice
F-11	4/19/2006	Executive Order 13175: Review of EPA Draft Guidance for Implementing Executive Order 13175, 71 Fed. Reg. 20314
F-12	6/9/2008	Memorandum from EPA Administrator Stephen L. Johnson re: Strengthening EPA Environmental Justice Program

F-13	11/1/2008	Arctic Multiple Sale Draft EIS for MMS Multi-Sale Lease EIS, Appendix B
F-14	2/12/2009	OEJ. 2009. EPA Office of Environmental Justice, Frequently Asked Questions <a href="http://www.epa.gov/compliance/resouces/faqs/ej/index.htm1#faq2">http://www.epa.gov/compliance/resouces/faqs/ej/index.htm1#faq2</a>
F-15	5/29/2009	Letter from North Slope Borough Mayor, Edward Itta to Dept. of the Interior Secretary, Ken Salazar
F-16	6/23/2009	E-mail from Jonathan Jemming to Ashley Zanolli regarding Request: EJ Listening Session for Shell OCS Permits – please respond with your availability
F-17	6/24/2009	E-mail from Jonathan Jemming to Ashley Zanolli regarding Request: EJ Listening Session for Shell OCS Permits – please respond with your availability
F-18	6/26/2009	Transcript of EJ Call on OCS Permitting June 26, 2009 with Jonathan Jemming of the North Slope Borough
F-19	6/26/2009	E-mail from Jonathan Jemming to Ashley Zanolli regarding Information Update!: EJ Listening Session for Shell OCS Permits – Agenda attached for Today’s 10AM call
F-20	7/9/2009	E-mail from Tami Fordham to Catherine Villa and ICAS regarding EJ Questions for ICAS meeting – tonight? Or another time?
F-21	7/17/2009	E-mail from Ashley Zanolli to Travis Amaulik Carducci regarding July 23 <sup>rd</sup> ICAS meeting for EPA Region 10 EJ analysis of proposed OCS air permits for Shell Oil’s oil and gas exploration in the Chukchi and Beaufort Seas
F-22	7/22/2009	Email from Ashley Zanolli, EPA to Travis Amaulik Carducci regarding 7/23/2009 Special Meeting Agenda – comments we’ve already heard
F-23	7/23/2009	Memo to File from Ashley Zanolli, EPA with meeting minutes from conference call with ICAS
F-24	7/23/2009	E-mail from Travis Amaulik Carducci to Ashley Zanolli regarding 07/23/2009 Special Meeting Agenda
F-25	7/27/2009	Memo to file from Nancy Helm, EPA, re: Early Outreach to North Slope Communities
F-26	7/28/2009	EPA’s Environmental Justice Geographic Analysis Tool, Demographics profile for Atqasuk, Barrow, Kivalina, Kotzebue, Point Hope, Point Lay, Wainwright

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**Section G: Government-to-Government Consultation**

EPA Exhibit Number	Date	Document Description
G-1	11/8/1984	1984 EPA Policy for the Administration of Environmental Programs on Indian Reservations
G-2	2/1/2003	Office of Air Quality Consultation and Communication Procedures
G-3	4/4/2008	Department of the Interior, Bureau of Indian Affairs, Indian Entities Recognized and Eligible to Receive Services from the United States Bureau of Indian Affairs, 73 Fed. Reg. 18553
G-4	05/2009	North Slope Communication Protocol: Communications Guidelines to Support Meaningful Involvement of the North Slope Communities in EPA Decision-Making, EPA Region 10, May 2009
G-5	06/2009	EPA Air Permits Info Sheet: Shell seeks air permits for exploratory drilling in Chukchi and Beaufort Seas
G-6	6/26/2009	Native Village of Anaktuvuk Pass Consultation Letter
G-7	6/26/2009	Native Village of Atqasuk Consultation Letter
G-8	6/26/2009	Native Village of Barrow Consultation Letter
G-9	6/26/2009	Inupiat Community of the Arctic Slope Consultation Letter
G-10	6/26/2009	Native Village of Kaktovik Consultation Letter
G-11	6/26/2009	Native Village of Kivalina Consultation Letter
G-12	6/26/2009	Native Village of Kotzebue Consultation Letter

G-13	6/26/2009	Native Village of Nuiqsut Consultation Letter
G-14	6/26/2009	Native Village of Point Hope Consultation Letter
G-15	6/26/2009	Native Village of Point Lay Consultation Letter
G-16	6/26/2009	Wainwright Traditional Council Consultation Letter
G-17	6/26/2009	EPA Request for Tribal Consultation Mailing List
G-18	7/1/2009	E-mail from Catherine Villa to NV Katovik regarding Consultation letters sent to wrong PO Box
G-19	7/1/2009	E-mail from Catherine Villa to Eunice Stalker regarding Consultation letters sent to wrong PO Box (wrong letter)-Niuqst
G-20	7/1/2009	E-mail from Catherine Villa to Eunice Stalker regarding Consultation letters sent to wrong PO Box (correct letter)-Lay
G-21	7/1/2009	E-mail from Catherine Villa to Rosemary (rahtuagaruak) regarding Nuiqsut
G-22	7/1/2009	E-mail from Catherine Villa to Joseph (jkakpik) regarding Consultation letters sent to wrong PO Box
G-23	7/6/2009	Email from Native Village of Nuiqsut to Tami Fordham, EPA regarding Request for Government-to-Government Consultation
G-24	7/9/2009	Email from Catherine Villa, EPA to Tami Fordham, EPA, and Doreen Lampe at ICAS regarding EJ Questions for ICAS Meeting
G-25	7/9/2009	Email from Catherine Villa, EPA to ICAS regarding Next Tribal Council Meeting
G-26	7/9/2009	E-mail from Tami Fordham, EPA to Native Village of Nuiqsut regarding Request for Government-to-Government Consultation

G-27	7/10/2009	Email from Catherine Villa, EPA to Doreen Lampe regarding Next Tribal Council Meeting
G-28	7/17/2009	E-mail from Travis Amaulik Carducci to June Childress regarding 07/23/2009 Special meeting Agenda (with attachment)
G-29	7/20/2009	E-mail from Michael Y. Brubaker to Catherine, EPA regarding FYI
G-30	07/22/09	Memorandum from EPA Administrator Lisa P. Jackson to All EPA Employees regarding EPA Indian Policy
G-31	07/23-07/24/09	Phone call log – follow up phone calls to communities regarding the Tribal Consultation letter.
G-32	7/24/2009	Fax from Tami Fordham, EPA to Natasha Greaves, EPA re faxes to Ester, Anuktuvuk Pass , and Sophie Henry, ICAS representative for Point Lay, re: follow up on consultation letter
G-33	7/24/2009	E-mail from Tami Fordham, EPA to iraungudruk_70 regarding The enclosures from the letter... (e-mail failed)
G-34	7/24/2009	E-mail from Tami Fordham, EPA to iranugudruk_70 regarding The enclosures from the letter...
G-35	7/24/2009	E-mail from Tami Fordham, EPA to mongoyak regarding Tribal Consultation
G-36	7/24/2009	E-mail from Tami Fordham, EPA to kvtribeadmin regarding Tribal Consultation?
G-37	7/24/2009	E-mail from Tami Fordham, EPA to Ira Ungudruk regarding Tribal Consultation?
G-38	7/24/2009	Email from Tami Fordham to Ashley Zanolli, re: UPDATE AND FOLLOW-UP: July 23rd ICAS EJ meeting with EPA Region
G-39	7/27/2009	E-mail from Tami Fordham, EPA to Iris Oktollik regarding Shell OCS Air Permitting Actions – Tribal Consultation?
G-40	7/31/2009	Email from Tami Fordham, EPA to Iris Oktollik regarding Shell OCS Air Permitting Actions – Tribal Consultation?

G-41	7/31/2009	E-mail from Tami Fordham, EPA to Robin Mongoyak regarding Tribal Consultation
G-42	8/10/2009	R10 Tribal Consultation Framework
G-43	8/11/2009	Email From Tammy Fordham to Natasha Greaves, Subject Emails regarding Tribal Consultation
G-44	8/11/2009	Email From Tammy Fordham to Natasha Greaves, Subject Emails to Nuiqsut, Kaktovic, and Point Lay regarding letter being sent to wrong PO box.
G-45	8/11/2009	Email From Tammy Fordham to Natasha Greaves, Subject Emails to Native Village of Wainwright; the Native Village of Kivalina; the Native Village of Anaktuvuk; Barrow Environmental Program Manager, Robin Mongoyak; Native Village of Point Hope; the Native Village of Barrow follow up on G2G letter, sent electronic copy of letter with attachments.
G-46	8/13/2009	Email from Tammy Fordham to Natasha Greaves, regarding Tribal Consultation Barrow
G-47	8/13/2009	Email 1 From Tammy Forham to iris.oktolik@tikigag.org, Subject Fw: Shell OCS Air Permitting Actions - Tribal Consultation?
G-48	8/13/2009	Email 2 From Tammy Forham to iris.oktolik@tikigag.org, Subject Fw: Shell OCS Air Permitting Actions - Tribal Consultation?
G-49	8/13/2009	Email From Tammy Fordham to Robin Mongoyak, Subject Fw: Tribal Consultation - Barrow
G-50	8/20/2009	Email from Tammy Fordham, EPA Region 10, to Doreen Lampee, President ICAS re: Government-to-Government Consultation
G-51	8/24/2009	Email from Lily Tuzroyluke to Catherine Villa, EPA regarding Shell OCS Air Permitting Actions – Tribal Consultation?
G-52	9/17/2009	Barrow ICAS Sign-In Sheet
G-53	9/21/2009	Community Open House Meeting Agenda, Wainwright, Alaska, Air Quality Permit, Shell Exploration Drilling in the Chukchi Sea

G-54	9/21/2009	Wainwright Community Open House Sign-In Sheet
G-55	9/23/2009	EPA and ICAS Government-to-Government Sign-In Sheet
G-56	9/24/2009	Community Open House Meeting Agenda, Point Hope, Alaska, , Air Quality Permit, Shell Exploration Drilling in the Chukchi Sea
G-57	9/29/2009	Email from Aggie Frankson-Henry to Tami Fordham, EPA regarding Point Hope – Government-to-Government Consultation?
G-58	9/30/2009	Email from Catherine Villa, EPA to Lily Tuzroyluck regarding Point Hope Government-to-Government Consultation?
G-59	10/1/2009	Email from Catherine Villa, EPA to Rick Albright, attaching Letter to Point Hope regarding Follow-up; Tribal Consultation
G-60	10/2/2009	Email from Catherine Villa, EPA to Lily Tuzroyluke regarding Follow-up Consultation – CORRECTION
G-61	10/19/2009	Email from Catherine Villa, EPA to Iris Oktollik regarding Extension Letter
G-62	1/7/2010	Letter to Caroline Cannon, President of Native Village of Point Hope from Richard Albright, EPA regarding Shell Offshore, Inc.'s Outer Continental Shelf Air Permit Application for Oil and Gas Exploratory Drilling in the Chukchi Sea
G-63	1/7/2010	Letter to George Edwards, IRA Tribal Organization, ICAS from Richard Albright, EPA regarding Shell Offshore, Inc.'s Outer Continental Shelf Air Permit Application for Oil and Gas Exploratory Drilling in the Chukchi Sea
G-64	3/26/2010	Memo from Tami Fordham, EPA, to Beaufort and Chukchi Shell Permit Files, re: Government-to-Government Consultation

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**Section GG. Government-to-Government Consultation**

EPA Exhibit Number	Date	Document Title
GG-1	2/17/2010	EPA Public Notice of Proposed Air Permit: Shell Offshore Inc. – Beaufort Sea, Alaska
GG-2	2/18/2010	Letter from Richard Albright, EPA, to Bernice Kaigelak, Native Village of Nuiqsut, re: Shell Offshore, Inc.’s Outer Continental Shelf Air Permit Application and Proposed Permit for Oil and Gas Exploratory Drilling in the Beaufort Sea
GG-3	2/18/2010	Email from Tami Fordham, EPA, to ICAS, re: Shell Beaufort PSD – Government to Government Consultation Letter
GG-4	2/18/2010	Email from Tami Fordham, EPA, to Native Village, re: Shell Beaufort PSD – Government to Government Consultation Letter
GG-5	2/18/2010	Letter from Richard Albright, EPA, to George Edwardson, Inupiat Community of the Arctic Slope (ICAS), re: Shell Offshore, Inc.’s Outer Continental Shelf Air Permit Application and Proposed Permit for Oil and Gas Exploratory Drilling in the Beaufort Sea
GG-6	2/23/2010	Email from Tami Fordham, EPA, to NVKaktovik, re: Shell Beaufort PSD – Government to Government Consultation Letter Att. 1: Public Notice Information Sheet Att. 2: Permit to Construct
GG-7	2/27/2010	EPA Region 10: Tribal Consultation Framework
GG-8	3/05/2010	Email from Tami Fordham, EPA, to ICAS Tribal, re: Barrow – Informational Meeting and Government-to-Government Invitation on the Arctic GP (and update on Beaufort PSD)
GG-9	3/05/2010	Email from Catherine Villa, EPA, to NV Kaktovik, re: Letter of 2/18/10 Consultation and Information
GG-10	3/08/2010	Email from Bernice Kaigelak, NVN, to Catherine Villa, EPA, re: March 17, 2010 – Government to Government
GG-11	3/08/2010	Email from Catherine Villa, EPA, to Native Village, re: March 17, 2010 – Government to Government Att. 1: Public Information Sheet Att. 2: Permit to Construct

GG-12	3/10/2010	Email from Tami Fordham, EPA, to Price Leavitt, ICAS, re: Informational Meeting and Government-to-Government Invitation on the Arctic GP
GG-13	3/15/2010	Email from Tami Fordham, EPA, to Price Leavitt, ICAS, re: Government-to-Government Consultation, Friday, March 19 <sup>th</sup> .
GG-14	3/23/2010	Email from Tami Fordham, EPA, to Native Village, re: Shell Beaufort PSD – Government-to-Government Consultation Att. 1: 2/18/10 Letter from Rick Albright, EPA, to Bernice Kaigelak, Native Village of Nuiqsut, re: Shell Offshore Inc.'s Outer Continental Shelf Air Permit Application and Proposed Permit for Oil and Gas Exploratory Drilling in the Beaufort Sea Att. 2: 2/17/10 Proposed Air Permit for Beaufort Att. 3: Permit to Construct

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**Section H: Initial Proposed Chukchi Permit (proposed August 20, 2009)**

EPA Exhibit Number	Date	Document Description
H-1	8/15/2009	Shell Gulf of Mexico Chukchi R10OCSPSD-AK-09-01 Mailing List
H-2	8/17/2009	Letters from Nancy Helm, EPA R10, to City of Barrow, Point Lay Library, City Of Wainwright, City of Point Hope, and City of Atqasuk re: Permit Record Materials for Public Display
H-3	8/20/2009	Proposed Permit, Permit No. R10OCS/PSD-AK-09-01
H-4	8/20/2009	Statement of Basis for Proposed Permit (dated 8/14/09)
H-5	8/20/2009	Statement of Basis Appendix A
H-6	8/20/2009	Statement of Basis Appendix B
H-7	8/20/2009	Statement of Basis Appendix B: Figures and Tables
H-8	8/20/2009	Air Permit Information Sheet, Air Quality Permit proposed to Shell Gulf of Mexico
H-9	8/20/2009	Public Notice for Air Quality Permit Proposed for Shell Gulf of Mexico Inc. (Chukchi Sea)
H-10	8/20/2009	EPA R10 Web Page Screen Shot of Public Comment Opportunities for Proposed Chukchi Air Permit, <a href="http://yosemite.epa.gov/R10/AIRPAGE.NSF/webpage/Public+Comment+Opportunities/">http://yosemite.epa.gov/R10/AIRPAGE.NSF/webpage/Public+Comment+Opportunities/</a>
H-11	8/20/2009	EPA R10 Web Home Page Screen Shot of Public Notice for Chukchi Sea Proposed Air Quality Permit Public Hearings and Information Meetings in Alaska, <a href="http://www.epa.gov/r10earth/">http://www.epa.gov/r10earth/</a>
H-12	8/20/2009	EPA R10 Air Permit Web Page Screen Shot of Public Notice of Chukchi Sea Air Permit <a href="http://yosemite.epa.gov/R10/airpage.nsf/Permits/chukchiap/">http://yosemite.epa.gov/R10/airpage.nsf/Permits/chukchiap/</a>

H-13	8/20/2009	EPA R10 Outer Continental Shelf (OCS) Air Permits Web Page Screen Shot of Public Notice of Proposed Chukchi Sea Permit, <a href="http://yosemite.epa.gov/R10/AIRPAGE.NSF/Permits/ocsap/">http://yosemite.epa.gov/R10/AIRPAGE.NSF/Permits/ocsap/</a>
H-14	8/20/2009	Affidavit of Publication in Anchorage Daily News: State of Alaska, Third Judicial District, re: Public Comment Att.: Air Quality Permit Proposed for Shell Gulf of Mexico Inc. to Operate the Frontier Discoverer Drillship in the Chukchi Sea, Alaska; Public Comment Period August 20 – October 5, 2009
H-15	8/21/2009	Email from Rebecca Smith to Suzanne Skadowski, EPA R10 Re: EPA Public Notice: Air Quality Permit proposed for Shell Oil/Gas exploratory drilling in Chukchi Sea
H-16	8/24/2009	Email from Suzanne Skadowski , EPA R10, to Claire Fishwick Re: EPA Public Notice: Air Quality Permit proposed for Shell Oil/Gas exploratory drilling in Chukchi Sea
H-17	8/24/2009	Email from Claire Fishwick to Suzanne Skadowski Re: EPA Public Notice: Air Quality Permit proposed for Shell oil/gas exploratory drilling in Chukchi Sea
H-18	9/18/2009	Fax from Reanna Norris to Katherine O'Hara re Affidavit and Tear Sheets for Publication in the Arctic Sounder
H-19	9/23/2009 (posted 8/21-2009)	ADEC Public Notices Web Screenshot, <a href="http://www.dec.state.ak.us/public_notices.htm">http://www.dec.state.ak.us/public_notices.htm</a>
H-20	9/23/2009 (posted 8/21-2009)	ADEC Air Quality Permit Proposed to Shell Gulf of Mexico Web Screenshot, <a href="http://www.dec.state.ak.us/air/ap/docs/EPA%20Shell%20ChukchiSea.pn.htm">http://www.dec.state.ak.us/air/ap/docs/EPA%20Shell%20ChukchiSea.pn.htm</a>
H-21	9/23/2009	Barrow, AK Public Hearing: Attendance Record on Proposed air Quality Permit for Shell Oil & Gas Exploration in the Chukchi Sea
H-22	9/23/2009	U.S. EPA, Public Hearing, Proposed Air Quality Permit, Shell Chukchi Sea Oil and Gas Exploration Drilling, Barrow, AK Transcript
H-23	9/25/2009	EPA Public Hearing, Anchorage Alaska: Sign-In sheet for those wishing to comment
H-24	9/25/2009	Anchorage, AK Public: Attendance Record on Proposed Air Quality Permit for Shell Oil & Gas Exploration in the Chukchi Sea
H-25	9/25/2009	U.S. EPA, Public Hearing, Proposed Air Quality Permit, Shell Chukchi Sea Oil and Gas Exploration Drilling, Anchorage, AK Transcript

H-26	09/2009	Materials presented at Public Information meetings in Barrow, AK on September 23, 2009 and Anchorage, AK on September 25, 2009: EPA OCS/PSD Permit for Shell Chukchi Sea Exploration Drilling, Posters
H-27	09/2009	Materials presented at Public Information meetings in Barrow, AK on September 23, 2009 and Anchorage, AK on September 25, 2009: OCS/PSD Permit for Shell Chukchi Sea Exploration Drilling Program - Frontier Discoverer: an Overview
H-28	10/2009	Notice of Public Comment Period for Air Quality Permit Proposed for Shell Gulf of Mexico, Inc. Extended to October 20, 2009.
H-29	10/2009	Screen Shot of EPA Region 10 website showing the Public Comment Period Extended to October 20, 2009.
H-30	10/2/2009	Publication Notice in the Anchorage Daily News, Public Comment Period Extended to October 20, 2009
H-31	10/8/2009	Copy from www.thearcticsounder.com Notice of Publication extending the Public Comment Period to October 20, 2009

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**Section I: Public Comments on August 2009 Initial Proposed Chukchi Permit**

EPA Exhibit Number	Date	Document Description
I-1	9/17/2009	Shell Comments on the August 2009 Proposed Discoverer / Chukchi OCS/PSD Permit to Construct and Wainwright Near-Term Ambient Air Quality Monitoring Program Third Quarter Data Report May through July 2009. (Note: does not include attachments. Attachments can be found in Section 1, Application)
I-2	9/22/2009	Cora Akpik to EPA Re: Public Comment on Chukchi Permit
I-3	9/22/2009	Marjorie Argashuk to EPA Re: Public Comment on Chukchi Permit
I-4	9/25/2009	Linda Leary to EPA Re: Public Comment on Chukchi Permit
I-5	9/25/2009	Stephen Connelly email to EPA Re: Public Comment on the Chukchi Permit
I-6	9/26/2009	Brian Benson email to EPA Re: Public Comment on the Chukchi Permit
I-7	9/28/2009	Doreen Lampe ICAS to Suzanne Skadowski Re: Govt to Govt workshop in Barrow, Ak comments for Shell Frontier Discoverer permit
I-8	9/28/2009	Heath Faulkner email to EPA Re: Public Comment on the Chukchi Permit
I-9	9/28/2009	Richard Faulker email to EPA Re: Public Comment on the Chukchi Permit
I-10	9/28/2009	Erik Grafe email and letter attachment Re: Public Comment on the Chukchi Permit
I-11	9/28/2009	Kevin L. Gray email to EPA Re: Public Comment on the Chukchi Permit
I-12	9/28/2009	Iris Oktollik email and letter to EPA from Native Village of Point Hope Re: Public Comment on the Chukchi Permit

I-13	9/28/2009	Carl Portman email and letter to EPA from Resource Development Council Re: Public Comment on the Chukchi Permit
I-14	9/28/2009	Barrie Pritchard email to EPA Re: Public Comment on the Chukchi Permit
I-15	9/28/2009	Earl Rude email to EPA Re: Public Comment on the Chukchi Permit
I-16	9/28/2009	Cheryl Thyng email to EPA Re: Public Comment on the Chukchi Permit
I-17	9/28/2009	Email from Jeff Turner for Representative Charisse Millett letter to EPA Re: Public Comment on the Chukchi Permit
I-18	9/28/2009	Terry Walker email to EPA Re: Public Comment on the Chukchi Permit
I-19	9/28/2009	Daryl Woods email to EPA Re: Public Comment on the Chukchi Permit
I-20	9/29/2009	Dan Demarco email to EPA Re: Public Comment on the Chukchi Permit
I-21	9/29/2009	Kristi Frankson email to EPA Re: Public Comment on the Chukchi Permit
I-22	9/29/2009	Bill Griffith email to EPA Re: Public Comment on the Chukchi Permit
I-23	9/30/2009	Dave Harbour email to EPA Re: Public Comment on the Chukchi Permit
I-24	9/30/2009	Micky Becker email to EPA Re: Public Comment on the Chukchi Permit
I-25	9/30/2009	Chuck Becker email to EPA Re: Public Comment on the Chukchi Permit
I-26	9/30/2009	Michael Brogan email to EPA Re: Public Comment on the Chukchi Permit

I-27	9/30/2009	Dave Cruz email to EPA Re: Public Comment on the Chukchi Permit
I-28	9/30/2009	John Mackinnon, Associated General Contractors of Alaska, email to EPA Re: Public Comment on the Chukchi Permit
I-29	10/1/2009	John Ellsworth Alaska Frontier Constructors Comments to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases
I-30	10/1/2009	Evan J Griffith, EJG Enterprises, to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases
I-31	10/1/2009	Chris Birch email with attachment to EPA Re: Public Comment on the Chukchi Permit
I-32	10/1/2009	Alicia Kerr email with attached letter to EPA Re: Public Comment on the Chukchi Permit
I-33	10/1/2009	Cristin Meznarich email to EPA Re: Public Comment on the Chukchi Permit
I-34	10/1/2009	Alicia Kerr email with attached letter from Betty East-Up Smith to EPA Re: Public Comment on the Chukchi Permit
I-35	10/1/2009	Alicia Kerr email with attached letter from Lee Smith to EPA Re: Public Comment on the Chukchi Permit
I-36	10/1/2009	Pete Stokes email to EPA Re: Public Comment on the Chukchi Permit
I-37	10/1/2009	Thomas B. Wood email to EPA Re: Public Comment on the Chukchi Permit
I-38	10/2/2009	James R. Winegarner Alaska Brooks Range Petroleum Corp to EPA Re: Support Issuance of Air Quality Permit for Shell's Chukchi Sea Leases
I-39	10/2/2009	John Goll from Alaska Minerals Management Service to EPA Re: Public Comment on Chukchi Permit
I-40	10/2/2009	Air Liquide Comments to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases

I-41	10/2/2009	Dave Scarbrough, Air Logistics, Comments to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases
I-42	10/2/2009	James R. Winegarner Alaska Brooks Range Petroleum Corp Email Comments to EPA Re: Support Issuance of Air Quality Permit for Shell's Chukchi Sea Leases
I-43	10/2/2009	Chris Ledgerwood NANUQ Inc Comments to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases
I-44	10/2/2009	Frank G Weiss III Alaska ANVIL Inc to EPA Re: Air Quality Permit for Shell's Chukchi Sea Leases, Alaska Anvil and our employee support issuance
I-45	10/3/2009	Scott Thorson Email Comments to EPA Re: Shell's Air Quality Permit
I-46	10/5/2009	Roger Jenkins to EPA Re: Public Comment on Chukchi Permit
I-47	10/5/2009	Steven C. Borell from Alaska Miners Association to EPA Re: Shell Air Quality Permit for Chukchi Sea Oil & Gas Exploration
I-48	10/7/2009	Scott E. Hawkins to EPA Re: Supporting the Air Quality Permit for Shell's Chukchi Sea Leases
I-49	10/8/2009	Shell Gulf of Mexico Inc. to EPA Re: September 17, 2009 Comments on the August 2009 Proposed Discoverer/ Chukchi OCS/PSD Permit to Construct
I-50	10/8/2009	Steel Co. Comments to EPA Re: Support Issuance of the Air Quality Permit for Shell's Chukchi Sea Leases
I-51	10/9/2009	Braun to EPA Re: Chukchi Sea Air Quality Permit (Frontier Discoverer) Email Comments
I-52	10/13/2009	Sharon E. Anderson letter to Suzanne Skadowski Re: I urge you to issue the Air Quality Permit for Shell's Chukchi Sea leases
I-53	10/13/2009	Mark C. Nelson, ASRC Energy Service, letter to Suzanne Skadowski Re: Comment on EPA Region 10 Proposes OCS Prevention of Significant Deterioration (PSD)
I-54	10/14/2009	Chris Bell, Account Manager for PCE Pacific, Inc., email and attached letter Re: Public Comment on the Chukchi Permit

I-55	10/14/2009	Bob Cox email to EPA Re: Public Comment on the Chukchi Permit
I-56	10/14/2009	Joe Dygas email to Nair Re: Public Comment on the Chukchi Permit
I-57	10/15/2009	Lon G. Wilson email to EPA Re: Public Comment on the Chukchi Permit
I-58	10/16/2009	Brian Tomlinson letter to EPA Re: Chukchi Sea Air Permit-Shell Gulf of Mexico, Inc.
I-59	10/17/2009	Wayne A. Stevens email and attached letter from the AK State Chamber of Commerce to EPA Re: Public Comment on the Chukchi Permit
I-60	10/19/2009	Bill Noll email to Suzane Skadowski Re: Public Comment on the Chukchi Permit
I-61	10/19/2009	John Dittrich email to EPA Re: Public Comment on the Chukchi Permit
I-62	10/19/2009	Joe Dygas email to EPA Re: Public Comment on the Chukchi Permit
I-63	10/19/2009	Steve Pratt email to Suzanne Skadowski Re: Public Comment on the Chukchi Permit
I-64	10/20/2009	Brendan Cummings email and attached letter from the Center for Biological Diversity Re: Draft OCS PSD Permit for Shell Gulf of Mexico, Inc. for Exploration Drilling in the Chukchi Sea
I-65	10/20/2009	James Gilbert letter from Udelhoven Oilfield System Services, Inc. Re: Public Comment on the Chukchi Permit
I-66	10/20/2009	Erik Grafe email and letter attachment from Earthjustice Re: Comments to proposed permit for Shell's Chukchi Sea Drilling
I-67	10/20/2009	Kirk Lilley, PLLC. email and attached letter from Shell Offshore, Inc. in response to Earthjustice's letter dated 8/10/2009 concerning Shell Chukchi and Beaufort Sea Permit Applications
I-68	10/20/2009	Kirk Lilley, PLLC. email and attached letter from Shell Offshore, Inc. providing a brief addition to the supplemental comments of 10/20/2009

I-69	10/20/2009	Iris Lane-Oktollik email and attached letter from the Native Village of Point Hope Re: Draft OCS PSD Permit for Shell
I-70	10/20/2009	Tanya Sanerib emails and attachments of comments from the Alaska Eskimo Whaling Commission, Inupiat Community of the Arctic Slope and North Slope Borough on Shell's Chukchi OCS PSD permit
I-71	10/20/2009	Rodger G. Steen email and attached letter from Shell Gulf of Mexico, Inc. Re: Shell Gulf of Mexico, Inc. Supplemental Comments on the August 2009 Proposed Discover/Chukchi OCS/SD Permit to Construct
I-72	10/20/2009	Brad Thomas email and attached letter from ConocoPhillips Re: Comments on the Air Quality Permit Proposed for Shell Gulf of Mexico Inc.

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**Section J: Modified Proposed Chukchi Permit (proposed January 8, 2010)**

	Date	Document Description
J-1	1/8/2009	Modified Proposed Permit – Outer Continental Shelf Prevention of Significant Deterioration Permit to Construct, Shell Gulf of Mexico, Inc.
J-2	1/8/2009	Modified Statement of Basis for Proposed Permit – Outer Continental Shelf Prevention of Significant Deterioration Permit to Construct, Shell Gulf of Mexico, Inc. (dated 01/08/2009)
J-3	1/8/2010	Chukchi Air Permit Public Notice and Information Sheet
J-4	1/8/2010	E-mail sent by Suzanne Skadowski regarding Public Notice of Chukchi Air Permit
J-5	1/8/2010	EPA website screenshot of Public Notice of Chukchi Air Permit
J-6	1/8/2010	Mailing List for Chukchi Air Permit, January 2010 New Modified Permit
J-7	1/8/2010	Public Notice on the Chukchi Air Permit, Comment Period: January 8 – February 17, 2010
J-8	1/8/2010	Anchorage Daily News EPA Notice of Public Comment Period for Shell Chukchi Air Permit
J-9	1/8/2010	Email from Suzanne Skadowski to Siobhan Hughes Re_Shell's Chukchi permit
J-10	1/11/2010	Email from Suzanne Skadowski, Region 10 EPA, to Susan Herrington, AK Business Magazine, Re: Mailing List About OCS Permits
J-11	1/13/2010	Email from Suzanne Skadowski, Region 10 EPA, to Ira Gudruk, NSB, Re: Shell Chukchi Sea Air Permit – Public Comment Period Open Now
J-12	1/14/2010	The Arctic Sounder EPA Notice of Public Comment Period for Shell Chukchi Air Permit

J-13	1/26/2010	Email from Suzanne Skadowski, Region 10 EPA, to Ukallaysaaq Tom Okleasik, Northwest Arctic Borough, Re: (EPA Public Hearing for the Shell Chukchi Air Permit)
J-14	1/27/2010	Email from Suzanne Skadowski, Region 10 EPA, to Sophie Henry, Village Liaison, Inupiat Community of the Arctic Slope, Re: Scheduling Informational Conference Call on EPA Air Permit- Feb 10?
J-15	2/1/2010	Email from Suzanne Skadowski, Region 10 EPA, to Northstar 4450, Cheryl Brower, Gordon Brower, et al, North Slope Borough, Re: EPA Shell Chukchi Air Permit Teleconference Information Meeting Feb 10
J-16	2/2/2010	Email from Suzanne Skadowski, Region 10 EPA, to Martha Kagak, Sharon File, Shirley Kagak, Fredricka m Stalker, Marie Tracey, et al , North Slope Borough, Re: EPA Shell Chukchi Air Permit Teleconference Information Meeting Feb 10 1:00pm – Duplicate for those who may have missed the first one Attachment: Teleconference Notice Flyer and Public Hearing Announcement for Barrow, Alaska
J-17	2/3/2010	Email from Suzanne Skadowski, Region 10 EPA, to ICAS.Natural, Re: EPA Shell Chukchi Air Permit Teleconference Information Meeting Feb 10 at 1:00PM
J-18	2/5/2010	Email from Suzanne Skadowski, Region 10 EPA, to Gary Mendivil, DEC, Re: Barrow Hearing for Shell Chukchi Sea Air Permit
J-19	2/9/2010	Email from Suzanne Skadowski, Region 10 EPA, to Mike , KBRW, Re: PSA for EPA Public Meeting/Call on Feb 10
J-20	2/16/2010	Email from Suzanne Skadowski, Region 10 EPA, to Amos Nashookpuk, Re: REMINDER: EPA public hearing teleconference tonight at 6:00 p.m.
J-21	2/16/2010	Email from Suzanne Skadowski, Region 10 EPA, to Martha Kagak, etc, North Slope Borough, Re: REMINDER: EPA public hearing teleconference tonight at 6:00 p.m.
J-22	2/16/2010	Email from Suzanne Skadowski, Region 10 EPA, to tokleasik, Re: REMINDER: EPA public hearing teleconference tonight at 6:00 p.m.
J-23	2/16/2010	Attendance Sign In Sheet – Public Hearing - 2/16/2010 – Barrow, Alaska Shell Air Permit- Chukchi Sea
J-24	2/16/2010	Testimony Sign-In; Public Hearing, EPA Proposed Air Quality Permit for Shell Oil and Gas Exploration in the Beaufort Sea [sic] February 16,2010 -6:00 pm -Barrow,

		Alaska
J-25	3/12/2010	Affidavit of Publication from The Anchorage Daily News

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**Section K - Public Comments on January 2010 Proposed Chukchi OCS/PSD Permit**

EPA Exhibit Number	Date	Document Description
K - 1	1/8/2010	Email from Thomas Wood to EPA, Re: Give them the permit
K - 2	1/11/2010	E-mail from Ukallaysaaq Tom Okleasik, Northwest Arctic Borough to Pat Nair, EPA and Suzanne Skadowski, EPA regarding Communities can comment on Shell permit
K - 3	1/15/2010	Email from Richard Braun to EPA, Re: Issuance of permits to Shell
K - 4	2/1/2010	Susan Childs, Shell Gulf of Mexico, Inc. letter to EPA Re: Comments on January 2010 Proposed Discoverer/Chukchi OCS/PSD Permit to Construct
K - 5	2/2/2010	Email from Steven B. to Suzanne Skadowski RE: Beaufort and Chukchi Sea Permits
K - 6	2/11/2010	Email from Charles Okakok to EPA, Re: Shell permit
K - 7	2/12/2010	Letter from John Goll of MMS to EPA, Re: New Modified Air Quality Permit Proposed for Shell to Operate the Frontier Discoverer Drillship in the Chukchi Sea, Alaska-MMS comments
K - 8	2/16/2010	Email from Georgia Skjelstad to EPA, Re: Comment-Proposed Shell OCS Permit (as issued 1/8/2010)
K - 9	2/16/2010	Transcript of Testimony at 2/16/10 Public Hearing in Barrow, Alaska on Proposed Permit
K - 10	2/17/2010	Letter from Susan Childs to EPA, Re: Shell Additional Comments on the January 2010 Proposal Discoverer/Chukchi OSC/PSD Permit to Contract
K - 11	2/17/2010	Letter from Geoffrey Haddad at ConocoPhillips to EPA, Re: OCS PSD Permit Number: R10OCS/PSD-AK-09-01 with attachment
K - 12	2/17/2010	Letter from Alaska Wilderness League, Audubon Alaska, Center for Biological Diversity, Earthjustice, Natural Resources Defense Council, Northern Alaska Environmental Center, Pacific Environment, Ocean Conservancy, Oceana, Sierra Club, Redoil, and World Wildlife Fund to EPA Region 10, Re: Proposed Outer Continental Shelf Prevention of Significant Deterioration Permit Number R10OCS?PSD-AK-09-01

K - 13	2/17/2010	Email from Ukallaysaaq Tom Okleasik, Northwest Arctic Borough, to EPA, Re: Comments Shell Chukchi Air Permit with Attachments
K - 14	2/17/2010	Letter from Vera Pardee to EPA, Re: New Modified Air Quality Permit Proposed for Shell to Operate the Frontier Discoverer Drillship in the Chukchi Sea, Alaska: Permit Number R10OCS/PSD-Ak-09-01
K - 15	2/17/2010	Email from Gary Mandivil to EPA, Re: Comment from ADEC on EPA PSD Permit for Shell's OCS Activities in the Chukchi Sea
K - 16	2/17/2010	Letter from Alaska Eskimo Whaling Commission, Inupiat Community of the Arctic Slope, and North Slope Borough to Pat Nair, Nancy Helm, and EPA Region 10, Re: Shell Gulf of Mexico/Shell Offshore Inc.'s Application for a Chukchi Sea Clean Air Act Permit with Attachments 1 through 37. Attachments 13 and 19 not printed. See Chukchi Administrative Record Compact Disc at the following file path: K - Public Comments on January 2010 Proposed Chukchi OCS/PSD Permit\K16

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**Section L: Final Chukchi Permit**

EPA Exhibit Number	Date	Document Description
L-1	3/31/2010	Final Chukchi Permit Signed March 31, 2010
L-2	3/31/2010	Response to Comments on OCS/PSD Permit
L-3	3/31/2010	Announcement of Final Decision
L-4	3/31/2010c	Chukchi Final Permit Redline
L-5	3/31/2010	Shell Chukchi Final Permit Summary of Changes
L-6	3/31/2010	Recipient Mailing List of Announcement, Final Permit, and Response to Comment
L-7	3/31/2010	Recipient Mailing List of Announcement (Repositories, Tribal and Other Government Agencies, and Interested Persons)
L-8	3/31/2010	Recipient Mailing List of Announcement (Commenters on August 20, 2009 Proposed Permit)
L-9	4/5/2010	Email to Jack Schaefer, Commenter, Re: Final Decision To Issue an OCS/PSD Permit to Shell Gulf of Mexico Inc. for Exploratory Drilling in the Chukchi Sea
L-10	4/5/2010	Email for Georgia Skjelstad, Commenter, Re: Final Decision To Issue an OCS/PSD Permit to Shell Gulf of Mexico Inc. for Exploratory Drilling in the Chukchi Sea
L-11	4/5/2010	Email to Ridgeburner, Commenter, Re: Final Decision To Issue an OCS/PSD Permit to Shell Gulf of Mexico Inc. for Exploratory Drilling in the Chukchi Sea
L-12	4/5/2010	Email to Richard Braun, Commenter, Re: Final Decision To Issue an OCS/PSD Permit to Shell Gulf of Mexico Inc. for Exploratory Drilling in the Chukchi Sea

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**Section MM. ADEC Rules/Regulations**

EPA Exhibit Number	Date	Document Title
MM-1	8/25/2004	ADEC References Attachment 1:ADEC: Standard Permit Condition I – Emission Fees Attachment 2:ADEC: Standard Permit Condition II – Air Pollution Prohibited Attachment 3: ADEC: Standard Operating Permit Condition VI – Good Air Pollution Control Practices Attachment 4: ADEC: Standard Operating Permit Condition XI – SO2 Emissions Attachment 5:ADEC: Standard Operating Permit Condition XII – SO2 Material Balance Calculation
MM-2	8/20/2008	ADEC References Attachment 1:ADEC: Standard Permit Condition III – Excess Emissions and Permit Deviation Reports Attachment 2:ADEC: Standard Permit Condition IV – Notification Form Attachment 3:ADEC: Standard Permit Condition IX – Visible Emissions and Particulate Matter Monitoring Plan for Liquid-Fired Emission Units
MM-3	11/9/2008	Dept. of Environmental Conservation, 18 AAC 50, Air Quality Control, As Amended through November 9, 2008
MM-4	11/9/2008	State of Alaska, Outer Continental Shelf Air Regulations, 40 CFR Part 55, Requirements Applicable to OCS Source
MM-5	3/03/2009	Fed. Reg. Vol. 74, No. 40, Proposed Rules, 40 CFR Part 55 [EPA-R10-OAR-2009-0111; FRL-8777-6] Outer Continental Shelf Air Regulations Consistency Update for Alaska, Proposed Rule-Consistency Update
MM-6	4/02/2009	Letter from Edward S. Itta, Mayor, North Slope Borough, to Natasha Greaves, EPA, re: Docket ID Number EPA-R10-OAR-2009-0111, Outer Continental Shelf Air Regulations Consistency Update for Alaska
MM-7	4/13/2009	Email from Nancy Helm, EPA, to Kara Kolash and Jonathan Jemming, North Slope, re: Public Comment Period for OCS Air Regulations Consistency Update for Alaska,
MM-8	4/29/2009	Fed. Reg. Vol. 74, No. 81, Proposed Rule, 40 CFR Part 55 [EPA-R10-OAR-2009-0111; FRL-8898-8] Outer Continental Shelf Air Regulations Consistency Update for Alaska, Proposed Rule-Re-

		opening of Comment Period
MM-9	5/13/2009	Email from Jonathan Jemming, North Slope, to Natasha Greaves, EPA, re: North Slope Borough's Supplemental Comments Att. 1: 5/13/09 Letter from Edward S. Itta, Mayor, to Natasha Greaves, EPA, re: Docket ID Number EPA-R10-OAR-2009-0111, Outer Continental Shelf Air Regulations Consistency Update for Alaska Att. 2: 4/2/09 Letter from Edward S. Itta, Mayor, to Natasha Greaves, EPA, re: Docket ID Number EPA-R10-OAR-2009-0111, Outer Continental Shelf Air Regulations Consistency Update for Alaska
MM-10	6/18/2009	Dept. of Environmental Conservation, 18 AAC 50, Air Quality Control, as Amended through 6/18/09
MM-11	1/21/2010	Fed. Reg. Vol. 75, No.13, Rules and Regulations, 40CFR Part 55 [EPA-R10-OAR-2009-0799; FRL-9095-8] Outer Continental Shelf Air Regulations Consistency Update for Alaska, Direct Final Rule
MM-12	1/21/2010	Fed. Reg. Vol. 75, No. 13, Rules and Regulations 40CFR Part 55 [EPA-R10-OAR-2009-0111;FRL-9095-9] Outer Continental Shelf Air Regulation Consistency Update for Alaska, Final Rule
MM-13	1/21/2010	Fed. Reg. Vol.75, No.13, Proposed Rule, 40 CFR Part 55 [EPA-R10-OAR-2009-0799; FRL-9095-7] Outer Continental Shelf Air Regulations Consistency Update for Alaska, Proposed Rule
MM-14	3/04/2010	Fed. Reg. Vol. 75, No. 42, Rules and Regulations, 40 CFR Part 55, [EPA-R10-PAR-2009-0799; FRL-9123-11], Final Rule Correction

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**Section NN. Proposed Beaufort Permit**

EPA Exhibit Number	Date	Document Title
NN-1	2/12/2010	Public Hearing Notice – Air Permit Application to Operate the Frontier Discoverer Drillship and Fleet – Beaufort Sea, Alaska
NN-2	2/12/2010	EPA Public Notice on ADEC website
NN-3	2/16/2010	Shell Beaufort Mailing List
NN-4	2/17/2010	Beaufort Permit Information Sheet
NN-5	2/17/2010	U.S. Express Mail Tracking Numbers
NN-6	2/17/2010	Beaufort Permit Public Notice Advertisement
NN-7	2/17/2010	EPA Public Notice on ADEC website
NN-8	2/17/2010	Shell Beaufort OCS/PSD Air Permit E-Mail List for 2/17/10 Public Notice
NN-9	2/17/2010	Shell Beaufort Proposed Permit
NN-10	2/17/2010	U.S. EPA Statement of Basis for Proposed Outer Continental Shelf Prevention of Significant Deterioration Permit
NN-11	2/17/2010	Shell Beaufort Sea Statement of Basis Appendix A
NN-12	2/18/2010	EPA Notice of Public Hearings and Comment Period for Beaufort Permit Advertisement Notice
NN-13	2/18/2010	EPA Notice of Public Hearings and Comment Period for Beaufort Permit Published in the Arctic Sounder

NN-14	2/24/2010	Email from Jonathan Jemming, NSB, to Region 10EPA, Re: Camden Bay Proposed Air Permit Request Attachment: Letter from Edward S. Itta, Mayor, North Slope Borough, to Suzanne Skadowski, EPA, Re: Shell Gulf of Mexico/Shell Offshore Inc.'s Application for a Camden Bay Clean Air Act Permit
NN-15	2/25/2010	EPA Notice of Public Hearings and Comment Period for Beaufort Permit Published in the Arctic Sounder
NN-16	3/3/2010	Shell Beaufort Mailing List
NN-17	3/12/2010	Affidavit of Publication of Public Hearings and Comment Period on 2/12/10 by the Anchorage Daily News
NN-18	3/12/2010	Affidavit of Publication of Public Hearings and Comment Period on 2/17/10 by the Anchorage Daily News

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**Section OO: Public Comments on Beaufort OCS/PSD Proposed Permit**

EPA Exhibit Number	Date	Document Description
OO-1	2/24/2010	Email from Jonathan Jemming to Suzanne Skadowski, Subject Camden Bay Proposed Air Permit Request with attached Letter from Edward S. Itta RE: Shell Gulf of Mexico/Shell Offshore Inc.'s Application for a Camden Bay Clean Air Act Permit.
OO-2	2/24/2010	Letter from Edward S. Itta RE: Shell Gulf of Mexico/Shell Offshore Inc.'s Application for a Camden Bay Clean Air Act Permit.
OO-3	3/1/2010	Letter from Richard Albright, EPA, to Edward S. Itta, Mayor, North Slope Borough, re: Proposed Air Permit to Shell Offshore Inc. for oil and gas exploration on the Beaufort Sea outer continental shelf – Request to Extend the Public Comment Period
OO-4	3/2/2010	Email from Janis Hastings, EPA, to Harold Curran, re: NSB 15-day comment extension request – EPA response letter Att. 1: 3/1/10 Letter from Richard Albright, EPA, to Edward S. Itta, Mayor, North Slope Borough, re: Proposed Air Permit to Shell Offshore Inc. for oil and gas exploration on the Beaufort Sea outer continental shelf – Request to Extend the Public Comment Period
OO-5	3/3/2010	Email from Suzanne Skadowski to Jonathan Jemming, Subject Camden Bay Proposed Air Permit Request with attached Letter from Richard Albright, EPA, to Edward S. Itta, Mayor, North Slope Borough, re: Proposed Air Permit to Shell Offshore Inc. for oil and gas exploration on the Beaufort Sea outer continental shelf – Request to Extend the Public Comment Period
OO-6	3/3/2010	Letter from Nancy Helm, EPA, to Jonathan Jemming, re: Two Copies of Administrative Record for Beaufort Sea Permit
OO-7	3/16/2010	Email from Suzanne Skadowski to Jonathan Jemming Re: Camden Bay Proposed Air Permit -- Request for Appendices to Statement of Basis
OO-8	3/16/2010	Public Hearing Sign-in Sheets for 3/16/10 to 3/18/10
OO-9	3/16/2010	Kaktovik Public Hearing Transcript on Beaufort
OO-10	3/17/2010	Nuqsut Public Hearing Transcript on Beaufort
OO-11	3/17/2010	Leah Frankson Beaufort Comment
OO-12	3/18/2010	Barrow Public Hearing Transcript on Beaufort
OO-13	3/18/2010	Comments from ADEC on Shell Beaufort

OO-14	3/18/2010	Delbert Rexford From Arctic Slope Comment on Draft Proposed Beaufort Permit
OO-15	3/22/2010	Conservation Groups' Comments Attachment: Letter from Conservation Groups to EPA Region 10, Re: Proposed Continental Shelf Prevention of Significant Deterioration Permit Number R10OCS/PSD-AK-2010-01
OO-16	3/22/2010	Comments from Native Village of Point Hope Attachment: Letter from Lilly Tuzroyluke, Executive Director, Native Village of Point Hope to Region 10 EPA, Re: Proposed Outer Continental Shelf Prevention of Significant Deterioration Permit Number R10
OO-17	3/22/2010	Email from Gene Pavia, UMIAQ, to Region 10 EPA, Re: Shell Beaufort PSD Permit to Construct No. R10OCS/PSD-AK-2010-01 Comments form Ukpeaguik Inupiat Corporation Attachment: Letter from Anthony E. Edwardsen, Pres., Ukpeagvik Inupiat Corporation, to EPA Region 10, Re: Comments on EPA Region 10 Proposed Outer Continental Shelf (OCS) Prevention of Significant Deterioration (PSD) Permit to Construct No. R10OCS?PSD – AK- 2010 -01 for Shell Offshore, Inc. Frontier Discoverer Drillship Beaufort Sea Exploration Drilling Program, dated February 17, 2010
OO-18	3/22/2010	Email from Linda S. Kuhn, Sr. Council, Anadarko Petroleum Corporation, to Region 10 EPA, Re: Anadarko's Comments on Shell Beaufort OCS/PSD Proposed Permit # R10OCS?PSD-AK-2010-01 Attachment: Letter from Todd Durkee, Manager, Drilling and Completions, Anadarko Petroleum Corporation to Region 10 EPA, Re: OCS PSD Permit Number R10OCS/PSD-AK-2010_01 (Shell Offshore Inc.)
OO-19	3/22/2010	Email from Vera Pardee, Center for Biological Diversity, to Region 10 EPA, Re: Comment by Center for Biological Diversity to Shell Beaufort Sea PSD Permit No. R10OCS/PSD Permit No. R10OCS/PSD-AK-2010_01 Attachment: Letter from Vera Pardee, Center for Biological Diversity, to EPA Region 10, Re: Proposed Outer Continental Shelf Prevention of Significant Deterioration Permit to Shell Offshore Inc. – Beaufort Sea, Alaska; Permit No. R10OCS?PSD-AK-2010-01
OO-20	3/22/2010	Email from Eric Hansen, Environ, to Rick Albright, Region 10 EPA, Re: Shell Comments on Draft Beaufort Sea PSD Permit Attachment: Letter from Susan Childs, Shell, to EPA Region 10, Re: Comments on Proposed PCS PSD Permit # R10OCS/PSD-AK-2010-01 Frontier Discoverer Drillship/Beaufort Sea Exploration Drilling Program
OO-21	3/22/2010	Email from Tanya Sanerib, Crag Law Center, to Region 10 EPA, Re: AEWC, ICAS, and NSB Comments Shell Beaufort Permits Attachment 1: Letter form Harry Brower, AK Eskimo Whaling Commission, George Edwardsen, President, ICAS, and Edward S.

		Itta, Mayor, North Slope Borough, to Natasha Greaves, Permit Writer, Region 10 EPA, and Nancy Helms, Federal and Delegated Air Programs Manager, Region 10 EPA, Re: Comment Letter Regarding Shell Gulf of Mexico./Shell Offshore Inc.'s OCS Pre-Construction Air Permit Application for the Beaufort sea Exploration Program, the Draft Permit, and EPA's Statement of Basis for the Draft Permit. Attachment 2: Index of Attachments to AEWC, ICAS and NSB Beaufort OCS/PSD Permit Comments
OO-22	3/22/2010	Letter from Martin Cohen, Statoil to EPA Re: OCS PSD Permit Number: RIOOCS/PSD-AK-2010-01
OO-23	3/23/2010	City of Nuiqsut Comment o Draft Beaufort Proposed Permit
OO-24	3/23/2010	Wilderness Society Comments on Draft Beaufort Permit
OO-25	3/24/2010	Email from Kirk Winges, Environ, to Natasha Greaves, EPA, re: References

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**Section PP. Final Beaufort Permit**

EPA Exhibit Number	Date	Document Description
PP-1	3/31/2010	Shell Chukchi Sea OSC/PSD Permit Response to Comments
PP-2	4/09/2010	Final Shell Beaufort OCS/PSD Permit
PP-3	4/09/2010	Final Beaufort Permit Announcement
PP-4	4/09/2010	Redlined Version of Shell Beaufort OCS/PSD Permit
PP-5	4/09/2010	Shell Beaufort Sea OSC/PSD Permit Response to Comments
PP-6	4/09/2010	Shell Beaufort Final Mailing List
PP-7	4/09/2010	Beaufort Final Mailing List Addendum

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