

**DANIEL CHARLES MUSSATTI**

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**SUMMARY**

- Twenty-two years experience in the economic valuation of natural resources and the environment
- Twenty-two years experience in evaluating environmental damages
- Twenty-two years of experience in the economic analysis of regulations, standards, and control technologies
- Seventeen years experience in assessing environmental impacts on low-income families, minorities and Native Americans
- Seventeen years experience in air pollution control design and costing
- Seventeen years experience in coastal, watershed, wetland, riparian, and agricultural water management
- Seventeen years experience in the application and costs of combustion controls
- Fifteen years experience as U.S Environmental Protection Agency's (EPA's) senior cost engineer for air pollution controls
- Ten years of experience as the editor of the EPA Air Pollution Control Cost Manual
- Seven years experience as an expert witness for environmental pollution enforcement efforts

**PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS**

**ADMINISTRATION /MANAGEMENT**

- Ten years experience as editor and co-author for the EPA, Office of Air and Radiation, Office of Air Quality Planning and Standards (OAQPS) Air Pollution Control Cost Manual (the Manual), including the evaluation of technical submissions of new chapters on key air pollution control devices
- Edited and co-authored *Manual de Costos de Control de Contaminacion del Aire de la EPA Sexta Edicion*, a Spanish translation of the entire EPA Air Pollution Control Cost Manual
- Seven years experience leading and coordinating the EPA's cost estimation activities in support of the U.S. Department of Justice (US DOJ) environmental enforcement actions against major coal-fired utilities
- Seven years experience as an expert witness in support of US DOJ environmental enforcement actions, including the development of expert reports, evaluation of plaintiff reports and rebuttals, the development of US DOJ rebuttals, participation in pre- and post-deposition planning and evaluation sessions, and providing depositions and testimony
- Participated in the development and management of the Air Compliance Advisor, a \$2.5 million computer-based program for the prediction of pre- and post-control emission rates for a variety of polluting industries
- Managed, coordinated, and led (for sixteen months) the efforts of a team of from four to twelve economists and engineers from EPA OAQPS, EPA Headquarters, OMB, and the White House for the assessment of a new eight-hour ozone standard
- EPA representative and liaison on the Interagency Task Force for establishing guidance for Executive Order 12898 (Environmental Justice)
- Six years experience as a member of the EPA Office of Air and Radiation OAQPS' Tribal Committee
- Twenty years experience in contract management, grant management, and cooperative agreement management; wrote statements of work for and directed, managed, and evaluated the efforts and work products of up to \$250,000 in contractor support for over eleven years on highly technical and politically sensitive projects, often involving confidential business information
- Coordinated a Bilateral Agreement Conference in Washington D.C. between the George H. W. Bush administration and the Canadian Department of Environment, including transportation, lodging, meeting room needs, and the publication and distribution of meeting handouts and minutes. Acted as liaison between the White House and the Canadian government and representatives from both countries' embassies.

**TECHNICAL EXPERIENCE**

- Authored and co-authored the EPA Air Pollution Control Cost Manual's chapters on the EPA's costing principles and methodology, monitors, SCR and SNCR NOx controls, mercury controls, SO2 and other acid gas scrubbing, and fabric filters
- Provided EPA expert witness services to the US DOJ, including the design and costing of SO2 air pollution control devices, and provided support for the design and costing of NOx, and PM air pollution controls devices for coal-fired utility litigation
- Fifteen years experience as the EPA's senior economist for Regulatory Impact Analyses, Information Collection Requests, technical support documents, guidance documents, and white papers for OAQPS regulations and guidances
- Fifteen years experience in interpreting, complying with, and training group members about the Regulatory Flexibility Act (RFA) and its modifications under the Small Business Regulatory Enforcement Fairness Act (SBREFA) and the Congressional Review Act (CRA), the Unfunded Mandates Reform Act (UMRA), the Paperwork Reduction Act (PRA), and Executive Orders 12174, 12291, 12498, 12612, 12866, 12875, 12898, 13045, 13084, and 13083

- Twelve years as the EPA's economic/cost advisor and expert to five Administrators, six Assistant Administrators, and four Office Directors for: 40 CFR parts 70 and 71 (Operating Permits), parts 51 and 52 (NSR and PSD), part 64 (monitoring)
- Twelve years experience assessing the efficiency and cost of Reasonably Available Control Technologies (RACT), Best Available Control Technologies (BACT), and Lowest Achievable Emission Level (LAER) controls for New Source Review (NSR) and Prevention of Significant Deterioration (PSD) applications
- Twelve years increasingly responsible management of the Agency's air pollution control costing function
- Ten years as the Agency's expert economist for pollution control device design and costing, including pre-combustion NOx controls, SCR and SNCR, VOC recovery and destruction controls, PM 10, PM 2.5 and PM ultrafine controls, SO2 FGD and other acid scrubber controls, controls for a new mercury standard, and the economic costs and benefits of the Agency's global climate change efforts
- Seven years experience in the assessment of the Clean Water Act and the Safe Drinking Water Act *vis a vis* the application of economic incentives, alternative management strategies, and incentives for technological innovation, including assessments of the interrelationships of the Clean Water Act, Safe Drinking Water Act, Clean Air Act, and the National Environmental Protection Act and the 2002 Farm Bill
- Six years experience in Best Conventional Treatment (BCT) and Best Available Treatment (BAT) limits for conventional and toxic point source water pollutants; and the management of combined sewer overflows, storm water runoffs, and other nonpoint sources of water pollution
- Seventeen years experience in riparian protection and cost effective agricultural practices for groundwater pollution control, including the assessment of economic damages and the economic valuation of potentially affected areas due to flooding under the US Department of Agriculture's Emergency Water Protection (EWP) Program
- Five years experience in the mitigation of flood damages and the assessment of the economic costs and benefits of flood control activities for the Natural Resources Conservation Service's Emergency Water Protection program
- Seven years experience as an economic team member and team leader evaluating the Clean Air Act and the economic impacts of alternative control strategies for National Ambient Air Quality Standards (NAAQS) for ozone, PM, PM2.5, and CO2
- Ten years experience with air quality models, including the Regional Oxidant Model (ROM), the Urban Airshed Model, (UAM-V), the Regulatory Modeling System for Aerosols and Deposition (REMSAD), and MARKAL; and pollution control device inventories, including the Emissions Reduction and Cost Analysis Model (ERCAM), the Integrated Planning Model (IPM) for electrical generating units, and ControlNet
- Thirteen years experience in developing curriculums, teaching, and applying economic incentives and innovative strategies for pollution control to academic institutions and State, Regional, and international environmental control officials
- Eight years experience in the economic evaluation of Maximum Achievable Control Technology (MACT) standards for National Emission Standards for Hazardous Air Pollutants (NESHAPs) for refractories, coke manufacturers, foundries, integrated iron and steel facilities, taconite refiners, sewerage sludge incinerators, and medical waste incinerators
- Designed and distributed state-wide economic surveys; designed databases to collect returned survey information, evaluated survey data, and reported survey results to the Hon. Steve Cowper, Governor of the State of Alaska
- Five years experience implementing the Nuclear Regulatory Commission's guidance documents for the development of Environmental Reports (ERs) and Environmental Impact Statements (EISs), including NUREG-1555, NUREG-1437, LIC-203 revision 1, and Reg Guide 4.2 revision 2
- Five years experience as NRC/NRO liaison and outreach officer to State, county, and local leaders for the assessment of socioeconomic and environmental justice impacts of potential new reactor sitings

## SPECIAL PROJECTS

- Served for two years as the co-chair of OAQPS' NAAQS teams for ozone and PM (chair for the ozone portion), including the coordination of schedules between groups, divisions, and Agency offices, the scheduling and evaluation of team deliverables, the presentation and defense of team products to Agency Headquarters, OMB, and White House staff, and the coordination of and presentation of information at stakeholder meetings, public hearings, academic oversight meetings, and Federal Advisory Committee Act (FACA) for Ozone and PM meetings
- Six years service as the economic advisor on EPA and inter-agency committees, panels, and task forces dealing with children's health, Native American issues, and environmental justice
- Served for one year as the OAQPS representative to the EPA's Small Business Regulatory Enforcement Fairness Act (SBREFA) Guidance Committee
- Four years service on Technical Evaluation Panels (TEPs) reviewing and assessing the qualifications of contractor proposals in response to EPA requests for proposals (RFPs)
- Five years service as a member of hiring committees for economists and other analysts for OAQPS, including the development of job qualifications and Knowledge, Skills, and Abilities (KSAs) ranking factors, preliminary screening of applicants, coordinating interviews, and coordinating the inputs of others toward selection of new employees
- Five years experience and economic lead for Vermont and New York agricultural projects, watershed assessments, and Emergency Water Protection projects.

- Five years experience as the USDA's economist for the State of Vermont
- Co-authored the EPA's Fundamentals of Environmental Economics for Policy Makers in Foreign Countries, with an emphasis on developing countries and nations among the Former Soviet States; taught the course to EPA facilitators; served as environmental economic liaison for Mexico, Russia, Canada, and OECD affairs; coordinated the translation of the OAQPS Air Pollution Control Cost Manual into Spanish for Mexico and other Latin American nations

### WORK HISTORY

2006 - present	<b>Socioeconomist</b>	US NRC / NRO / Environmental Technical Support Branch Rockville, MD
2000 - 2006	<b>EPA Industry Expert / Expert Witness</b>	US EPA / US DOJ Environmental Enforcement Office RTP, NC
2001 - 2006	<b>State Economist</b>	US EPA / USDA Natural Resources Conservation Service, Vermont RTP, NC / Colchester, VT
2000 - 2001	<b>Senior Economist and Liaison Officer</b>	US EPA / ORD / APPCD / Technical Support Branch RTP, NC
1997 - 2006	<b>Senior Cost Engineer and Editor</b>	US EPA / OAQPS / AQSSD / Innovative Strategies and Economics Group RTP, NC
1994 - 1997	<b>Program Lead, Ozone Standard</b>	US EPA / OAQPS / AQSSD / Innovative Strategies and Economics Group RTP, NC
1993 - 1997	<b>Senior Economist and Cost Engineer</b>	US EPA / OAQPS / AQSSD / Innovative Strategies and Economics Group RTP, NC
1991 - 1993	<b>Regulatory Analyst</b>	US EPA / OPPE / OPA / Regulatory Innovations Branch Washington D.C.
1987 - 1991	<b>Research Assistant</b>	University of Maryland, College Park University of Alaska Fairbanks
1983 - 1990	<b>Economic Analyst</b>	Daniel Charles Mussatti and Associates, Fairbanks, AK

### EDUCATION

- Ph.D Candidate: The American University, 4400 Massachusetts Ave. NW, Washington D.C.  
Ph.D. Graduate Student, 1992 - 93 nineteen credits at the Master's level toward a doctorate in Environmental Policy Economics. Fields of specialization include Environmental Economics, Industrial Organization, Microeconomic Theory, and Econometrics
- M.A. University of Maryland, 3105 Tidings Hall, College Park, Maryland  
Masters of Arts in Environmental Economics completed 1993. Fields of specialization include Environmental Economics, Natural Resource Economics, and Industrial Economics. Thesis: Springing the Social Trap: Bonding Schemes as a Regulatory Tool. 41 credits
- M.S. University of Alaska Fairbanks, Signers' Hall, Fairbanks, Alaska  
Masters of Science in Natural Resource and Environmental Economics completed 1990. Emphasis in Mathematical Modeling, Renewable Natural Resource Economics, Fisheries Economics, Environmental Economics, and Mathematics. Thesis: The Behavior of the Firm in the Presence of Catastrophic Environmental Damage and Mandatory Abatement. 24 credits

B.B.A. University of Alaska Fairbanks, Signers' Hall, Fairbanks, Alaska.  
Bachelor of Business Arts in Economics, completed 1987. Emphasis in Regional Economics and Public Finance. 123 credits

## PUBLICATIONS

### BOOKS AND MANUALS

#### Editor / co-editor

U.S. EPA. 2002 Manual de Costos de Control de Contaminacion del Aire de la EPA Sexto Edicion, (formerly the QAQPS Air Pollution Control Cost Manual), available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2001 The EPA Air Pollution Control Cost Manual Sixth Edition, (formerly the QAQPS Air Pollution Control Cost Manual), available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1999. The QAQPS Air Pollution Control Cost Manual Fifth Edition, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA, 1994. Principles of Environmental Economics: A Training Manual for Environmental Management in Former Soviet States and Other Developing Nations, for the Office of Policy Planning and Evaluation, Office of Policy Analysis, Economic Analysis Division, Regulatory Innovations Branch. Washington D.C.

U.S. EPA, 1992. The United States Environmental Protection Agency Guide to Environmental Economics as a Regulatory Tool, for the Office of Policy Planning and Evaluation, Office of Policy Analysis, Economic Analysis Division, Regulatory Innovations Branch. Washington D.C.

#### Author / co-author

U.S. EPA 2002. "Mercury Controls," Chapter 7.1 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA 2002. "Wet and Dry Scrubbers for SO<sub>2</sub>," Chapter 5.2.2 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA 2002. "Wet Scrubbers for PM," Chapter 4.3 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2001 "Selective Noncatalytic Reduction," Chapter 4.1 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2001 "Selective Catalytic Reduction," Chapter 4.2 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2001 "Fabric Filters," Chapter 5 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2001 “Monitors,” Chapter 2.2 in The EPA Air Pollution Control Cost Manual Seventh Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1999. “Cost Estimation: Concepts and Methodology,” Chapter 2 in The OAQPS Air Pollution Control Cost Manual Sixth Edition, available on the CATC website: <http://www.epa.gov/ttn/catc/products.html#cccinfo>, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA, 1994. Principles of Environmental Economics: A Training Manual for Environmental Management in Former Soviet States and Other Developing Nations, for the Office of Policy Planning and Evaluation, Office of Policy Analysis, Economic Analysis Division, Regulatory Innovations Branch. Washington D.C.

## NRC REPORTS

The following reports have all been published for the Office For New Reactors, Environmental Technical Support Branch, Rockville, MD. For each of the following publications, Mr. Mussatti was either the author or coauthor of the following sections and chapters of the report: 2.5 Socioeconomics (baseline); 2.6 Environmental Justice (baseline); 4.4 Socioeconomic Impacts (Construction); 4.5 Environmental Justice Impacts (Construction); 5.4 Socioeconomic Impacts (Operation); 4.5 Environmental Justice Impacts (Operation); 7.6 Socioeconomics, Historic and Cultural Resources, and Environmental Justice Impacts (Cumulative Impacts); 8.0 through 8.5 (Need For Power); 9.2 Energy Alternatives, 9.3 Environmental Impacts of Alternative Sites, and 10.6 Benefit-Cost Balance. Additional authorships are addressed for the appropriate reports.

US NRC. (forthcoming) 2011, NUREG 1936 Final Environmental Impact Statement for the Combined License (COL) for Calvert Cliffs Nuclear Power Plant Unit 3.

US NRC. (forthcoming) 2011, NUREG 1939 Final Environmental Impact Statement for the Combined License (COL) for Virgil C. Summer Nuclear Station Units 2 and 3.

US NRC. (forthcoming) 2011, NUREG 1943 Final Environmental Impact Statement for the Combined License (COL) for Comanche Peak Nuclear Power Plant Units 2 and 3.

US NRC. (forthcoming) 2011, NUREG 1941 Final Environmental Impact Statement for the Combined License (COL) for Levy Nuclear Plant Units 1 and 2.

US NRC. March 2011, NUREG 1947 Final Supplemental Environmental Impact Statement for Combined License (COL) for Vogtle Electric Generating Plant Units 3 and 4.

US NRC. February 2011, NUREG 1937 Final Environmental Impact Statement for the Combined License (COL) for South Texas Project Electric Generating Station Units 3 and 4.

US NRC. August 2010, NUREG 1943 Draft Environmental Impact Statement for the Combined License (COL) for Comanche Peak Nuclear Power Plant Units 2 and 3.

US NRC. August 2010, NUREG 1941 Draft Environmental Impact Statement for the Combined License (COL) for Levy Nuclear Plant Units 1 and 2.

US NRC. April 2010, NUREG 1939 Draft Environmental Impact Statement for the Combined License (COL) for Virgil C. Summer Nuclear Station Units 2 and 3.

US NRC. April 2010, NUREG 1936 Draft Environmental Impact Statement for the Combined License (COL) for Calvert Cliffs Nuclear Power Plant Unit 3.

US NRC. March 2010, NUREG 1937 Draft Environmental Impact Statement for the Combined License (COL) for South Texas Project Electric Generating Station Units 3 and 4.

US NRC. December 2008, NUREG 1917 Supplemental Environmental Impact Statement for the Combined License (COL) for North Anna Power Station Unit 3.

US NRC. August 2008, NUREG 1872 Final Environmental Impact Statement for an Early Site Permit (ESP) at the Vogtle Electric Generating Plant Site, Coauthor for the following chapters of the report: 2.8 Socioeconomics (baseline); 2.10 Environmental Justice(baseline); 4.5 Socioeconomic Impacts (Construction); 4.7 Environmental Justice (Construction); 5.5 Socioeconomic Impacts (Operation); 5.7 Environmental Justice Impacts (Operation); 7.6 Socioeconomics, Historic and Cultural Resources, and Environmental Justice (Cumulative Impacts); 8(all) Need For Power; 9.3 Environmental Impacts of Alternative Sites, 10.6 Benefit-Cost Balance.

US NRC, December 2006, NUREG 1811, Final Environmental Impact Statement for an Early Site Permit (ESP) at the North Anna ESP Site, Reviewer for the following chapters of the report: 2.8 Socioeconomics (baseline); 2.10 Environmental Justice(baseline); 4.5 Socioeconomic Impacts (Construction); 4.7 Environmental Justice (Construction); 5.5 Socioeconomic Impacts (Operation); 5.7 Environmental Justice Impacts (Operation).

US NRC, July 2006, NUREG 1815, Final Environmental Impact Statement for an Early Site Permit (ESP) at the Excelon ESP Site, Reviewer for the following chapters of the report: 2.8 Socioeconomics (baseline); 2.10 Environmental Justice(baseline); 4.5 Socioeconomic Impacts (Construction); 4.7 Environmental Justice (Construction); 5.5 Socioeconomic Impacts (Operation); 5.7 Environmental Justice Impacts (Operation).

## REGULATORY ANALYSES

U.S. EPA. 2002.Routine Maintenance Repair and Replacement Impact Analysis for New Source Review Reform, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2002. Information Collection Request for the Establishment of a Definition of Routine Maintenance, Repair and Replacement for the New Source Review Program, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2002. Information Collection Request for Changes to the 40 CFR Parts 51 and 52 PSD and NSR Applicability Requirements for Modifications to Existing Sources, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2002.Information Collection Request for the 40 CFR Parts 51 and 52 PSD And NSR Proposed Changes To the Clean Unit Exclusion Test, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA, 2001. Information Collection Request Update for the 40 Cfr Part 64 Compliance Assurance Monitoring Program, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. Environmental Protection Agency. 2000. Coke MACT Economic Impact Analysis. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC, December.

U.S. EPA. 2000. Information Collection Request Update for Parts 51 and 52 New Source Review (NSR) and Prevention of Significant Deterioration (PSD) Regulations Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2000. Information Collection Request Update for Part 71 Federal Operating Permit Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 2000. Information Collection Request Update for Part 70 Federal Operating Permit Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1999. Regulatory Impact Analysis for the NOx SIP Call, FIP, and Section 126 Petitions, Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1999. The Office of Air Quality Planning and Standards Economic Analysis Resource Document. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1999. Economic Impact Analysis of the Proposed Commercial and Industrial Solid Waste Incineration NESHAP. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1998. Supplemental Ozone Transport Regulatory Analysis. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1997. Regulatory Impact Analysis for the National Ambient Air Quality Standard for Ozone. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1997. Information Collection Request Update for Parts 51 and 52 New Source Review (NSR) and Prevention of Significant Deterioration (PSD) Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1997. Regulatory Impact Analysis and Information Collection Request for Part 71 Federal Operating Permit Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1997. Regulatory Impact Analysis and Information Collection Request for Part 64 Enhanced Monitoring Rule. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1997. Information Collection Request Update for Part 70 Federal Operating Permit Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1994. Regulatory Impact Analysis and Information Collection Request for Parts 51 and 52 New Source Review (NSR) and Prevention of Significant Deterioration (PSD) Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

U.S. EPA. 1994. Regulatory Impact Analysis and Information Collection Request for Part 70 Federal Operating Permit Regulations. Office of Air Quality Planning and Standards, Air Quality Strategies and Standards Division, Innovative Strategies and Economics Group. Research Triangle Park, NC.

## PAPERS

Daniel Charles Mussatti, 1993, "Does Mobile Source Regulation Effect Productivity in the Automobile Industry?" discussion paper, presented at The American University 1993 CAS Student Research Conference, March 24, 1993.

U.S. EPA, 1992. "Does Cheap Water Cause Pollution?" working paper for the Regulatory Innovations Branch, OPPE, US EPA.

U.S. EPA, 1992. "Guide to the Use and Implementation of Survey Bonds in Environmental Programs," prepared for OPPE

U.S. EPA, 1992. "From Command Economy to Market Incentives: The Russian Federation's New Pollution Charge Program," 1992 white paper for EPA OPPE Regulatory Innovations Branch (RIB)

Daniel Charles Mussatti, 1991, "Springing the Social Trap: Bonding Schemes as a Regulatory Tool," University of Maryland Master's Thesis, 1991 (unpublished)

Daniel Charles Mussatti, 1990, "A Review of Current Estimates of Gray Whale Abundance," 1990 (unpublished), for the Eskimo Whaling Commission

Daniel Charles Mussatti, 1990, "The Behavior of the Firm in the Presence of Catastrophic Environmental Damage and Mandatory Abatement," University of Alaska Master's Thesis

Daniel Charles Mussatti, 1993, "Oil Spill Impact on the Kenai Peninsula Borough: An Early Assessment," 1989, Daniel Charles Mussatti, contributing author.