

1. Record Nr.	UNINA9910781368903321
Titolo	Air quality and stationary source emission control : a report / / by the Commission on Natural Resources, National Academy of Sciences, National Academy of Engineering, National Research Council ; prepared fob [sic] the Committee on Public Works, United States Senate, pursuant to S. Res. 135
Pubbl/distr/stampa	Washington : , : U.S. Govt. Print. Off., , 1975
ISBN	0-309-59286-0
Descrizione fisica	1 online resource (xliv, 909 pages) : illustrations
Soggetti	Air - Pollution - United States Air quality
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	At head of title: 94th Congress, 1st session. Committee print. "Serial no. 94-4."
Nota di bibliografia	Includes bibliographies.
Nota di contenuto	""AIR QUALITY AND STATIONARY SOURCE EMISSION CONTROL""; ""NOTICE""; ""Contents""; ""INTRODUCTION AND SUMMARY""; ""SCOPE OF THE REPORT""; ""SUMMARY""; ""SUMMARY OF PART ONE: HEALTH AND ECOLOGICAL EFFECTS OF SULFUR DIOXIDE AND SULFATES""; ""Sulfur Oxide Emissions and Abatement Techniques""; ""Reasons for Reducing Emissions of Sulfur Oxides""; ""Recommended Decisions and Decision Processes for Abatement Strategies""; ""The Value of Resolving Uncertainties on the Effects of Sulfur Oxide Emissions""; ""SUMMARY OF PART THREE: CONTROL OF NITROGEN OXIDES FROM STATIONARY SOURCES"" ""PART ONE HEALTH AND ECOLOGICAL EFFECTS OF SULFUR DIOXIDE AND SULFATES""""CHAPTER 1 INTRODUCTION""; ""LITERATURE CITED""; ""CHAPTER TWO GENERAL CONSIDERATIONS""; ""ATMOSPHERIC SOURCES, INTERACTIONS AND SINKS""; ""METHODS OF STUDY OF SULFUR OXIDE HEALTH EFFECTS""; ""In Vitro Studies""; ""Animal Experiments""; ""Controlled Human-Exposure Experiments""; ""Epidemiologic Studies""; ""NORMAL LUNG FUNCTION IN RELATION TO SULFUR OXIDE HEALTH EFFECTS""; ""INDIVIDUAL VARIATIONS IN RESPONSE""; ""LITERATURE CITED""; ""CHAPTER 3 BASIC BIOMEDICAL

EFFECTS OF SULFUR OXIDES""

""BIOCHEMICAL MECHANISMS OF SULFUR OXIDE TOXICITY""""

PHYSIOLOGIC AND ANATOMIC EFFECTS OF SULFUR OXIDES"";

""LITERATURE CITED""; ""CHAPTER 4 HEALTH EFFECTS OF SULFUR

OXIDES""; ""CHILDREN""; ""BRONCHIAL ASTHMA""; ""CHRONIC

BRONCHITIS AND EMPHYSEMA""; ""Definition and Classification"";

""Mortality Studies""; ""Morbidity""; ""Respiratory Tract Infections"";

""Lung Cancer""; ""Quantitation""; ""LITERATURE CITED""; ""CHAPTER 5

ECOLOGICAL EFFECTS""; ""INTRODUCTION""; ""EFFECTS OF SULFUR

DIOXIDE ON VEGETATION""; ""EFFECTS OF ACID PRECIPITATION ON

TREES AND FOREST PRODUCTIVITY""

""EFFECTS OF ACID RAIN ON AGRICULTURE""""EFFECTS OF ACID RAIN

ON FISH AND AQUATIC ECOSYSTEMS""; ""ECOSYSTEM EFFECTS"";

""ATMOSPHERIC AEROSOLS""; ""SUMMARY AND CONCLUSION"";

""LITERATURE CITED""; ""PART TWO STRATEGIES FOR CONTROLLING

SULFUR-RELATED POWER PLANT EMISSIONS""; ""PART TWO IN BRIEF:

STRATEGIES FOR CONTROLLING POWER PLANT EMISSIONS""; ""RELATION

OF EMISSIONS TO AMBIENT AIR QUALITY AND CHEMISTRY OF

PRECIPITATION""; ""EFFICIENT PRICING AND CONSERVATION"";

""MODIFICATION OF DEMAND FOR ELECTRIC POWER""; ""Generation of

Byproduct Electricity in Industry""

""Improved Efficiency of Equipment and Processes"" ""Shift of Space

Heating Load from Oil and Gas to Coal as Primary Fuel""; ""FLUE GAS

DESULFURIZATION (FGD)""; ""Introduction""; ""Lime Scrubbing in the

Unsaturated Mode""; ""Lime Scrubbing in the Supersaturated Mode"";

""Limestone Scrubbing in the Supersaturated Mode""; ""Limestone

Scrubbing in the Unsaturated Mode""; ""Availability of Lime and

Limestone Scrubber Technology""; ""Regenerative Flue Gas

Desulfurization Processes""; ""Cost of Flue Gas Desulfurization"";

""Residuals Produced from Flue Gas Desulfurization"" ""Capability of

Vendors and Utility Companies""
