

PREFACE

The Emissions, Costs, and Engineering Assessment Subgroup (Work Group 3B) was established under the MEMORANDUM OF INTENT in order to provide support to the development of the control element of the bilateral agreement on transboundary air pollution. Work Group 3B is also charged with preparing proposed work under the Applied Research and Development element of the agreement.

The purpose of this Phase I report is to respond to the Terms of Reference identified in the MEMORANDUM OF INTENT and to the tasks set forth in the group's approved work plan. During Phase I, Work Group 3B has devoted its efforts to:

- a. Preparing a work plan for Phase I and Phase II
- b. Identifying control technologies and associated costs for source categories of major concern
- c. Reviewing historical emission trends
- d. Determining current emission rates from the source regions
- e. Projecting future emission rates under varying control and economic conditions
- f. Preparing the Phase I report

During Phase II, the group will:

- a. Prepare a work plan for Phase III
- b. Conduct a series of iterative analyses in order to evaluate different pollution control scenarios
- c. Prepare the Phase II report

Due to time and resource constraints, it has not been possible to treat all emissions and source categories equally. Although some source categories have been covered only lightly, we have attempted to treat intensively those source categories thought to be major contributors to transboundary air pollution problems. Some work remains in order to reconcile our results with those of the other work groups, especially Work Group 2. During Phase I, the emphasis has been placed on compiling as much information as possible on the major precursors of acid precipitation (i.e., sulphur and nitrogen oxides) and the primary sources of these emissions. A major effort will be undertaken during Phase II to upgrade the information presented in this document and to analyze various emission control strategies for the sources of acid deposition.