

PREAMBLE

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 a 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 III 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 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
- f) Preparing the Phase I report

During Phase II, the group accomplished the following:

- a) Refined initial data inputs
- b) Prepared a work plan for Phase III

During Phase III the group:

- a) Improved and expanded on the information compiled in previous studies
- b) Undertook a more careful examination of uncertainties
- c) Completed a formal Phase III report (this report).

The first chapter of this report summarizes the major findings and conclusions in terms of the major analytical elements: emissions, technology for control, and costs. The remainder of the report is structured to closely follow the Terms of Reference for Work Group 3B. Chapter B analyzes the emission trends for SO₂ and NO_x in the United States and Canada. Chapter C presents data and information on emission control technologies and associated costs for all major source categories. While Chapter D presents preliminary data on other pollutants,