(1) The maximization of the reduction in deposition with given constraints on emission reductions.

(2) The minimization of the cost of emission reduction given constraints on the deposition reduction.

These applications are described in more detail in Appendix 7.

Because of the large amount of data to be handled in transfer matrix operations and due to the complexity of the operations themselves, an integrated transfer matrix processing system is under development. This system will be accessed by Work Groups 3A and 3B during Phase II and beyond in order to provide the rapid-response analyses required to support the negotiations following Phase II. The integrated matrix processing system has been designed to handle a variety of inputs and to provide the specific outputs needed by Work Groups 2, 3A, and 3B. At present the integrated processing system consists of five computer programs which format, intercompare, plot, and manipulate the matrices. It is expected that the integrated matrix processing system will be refined and that the operations in program five (least-cost, source-receptor optimization) will be specified by Work Group 3B in Phase II. This system is described in more detail in Appendix 7.