

Interoffice Correspondence

Massachusetts Institute of Technology
Department of Chemical Engineering

Memorandum to: Team 13 – Group Members

From: Gregory J. McRae

Subject: Assignment of ICE Design Topic Spring 2006

Date: 27th February 2006

Dear Team 13 – Group Members:

One of the challenges in reducing emissions from electricity generation is to remove the CO₂ from the flue gas. Most of the existing power plants in the US and for that matter around the world do not have any CO₂ capture technologies installed. One concept is the use of amines for scrubbing the CO₂ from the exhaust gas streams. There are other alternatives like potassium carbonate and ammonia. Your task for this next week is to explore the issues associated with the use of absorbents other than amines and develop a suitable options and a plan of attack.

You are not to discuss with your class mates either the technology you have been asked to evaluate or your findings as you progress with your designs. A separate handout describes the structure of the final report.