

Interoffice Correspondence

Massachusetts Institute of Technology
Department of Chemical Engineering

Memorandum to: Team 12 – Group Members

From: Gregory J. McRae

Subject: Assignment of ICE Design Topic Spring 2006

Date: 27th February 2006

Dear Team 12 – 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. Your task is to assess chemical looping as a way to lower CO₂ emissions and in particular to see if it could be used to retrofit existing coal fired power plants. Your assignment for this next week is to develop a suitable option and develop 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.