

Interoffice Correspondence

Massachusetts Institute of Technology
Department of Chemical Engineering

Memorandum to: Team 9 – Group Members

From: Gregory J. McRae

Subject: Assignment of ICE Design Topic Spring 2006

Date: 27th February 2006

Dear Team 9 – Group Members:

One of the challenges in reducing emissions from electricity generation is separating the CO₂ from the flue gas. Another alternative is to preprocess the coal to make syngas. Once you adopt this solution then there are many other ways of dealing with CO₂ including polygeneration – the production of chemicals from H₂ and CO. Your assignment is to develop a suitable polygeneration 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.