DECISION SCIENCES INSTITUTE Carbon Emission Modeling in a Two Stage Supply Chain

ABSTRACT

Carbon emission management is becoming a very important part of the green supply chain landscape. In this paper we integrate carbon tax mechanism and carbon cap-and-trade mechanism in the joint lot sizing decision between a manufacturer and a retailer in a two stage supply chain.

<u>KEYWORDS</u>: Carbon Emission, Joint Lot Sizing, Carbon Tax, Cap-and-Trade, Supply Chain