SAE CSC2004 SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to Lori Witting before you leave the registration area. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete)*. Please answer all questions accurately, as the responses you supply will be used to summarize your entry in the SAE CSC2004 Summary Technical Paper.

Team Name and Number:Minnesota State University -Mankato #10
Engine
Engine Cycle (2-stroke, 4-stroke, rotary) 4 stroke
Engine Displacement (cc) 683
Engine Manufacturer Polaris
Engine Modifications custom pistons, camshaft, porting, high temp. coating
Compression Ratio8.0_
Turbocharged? Supercharged? turbo charged
Engine Management System MoTec
Fuel Delivery (Carburetors, EFI, DI):EFI
Emission Control Air/Fuel Ratio Chosen (lean, stoich?) stoich
Catalyst? Type?3 way
Secondary Air Injection? <u>yes</u>
Exhaust Gas Recirculation?no
Other wide band O ₂
Noise Control
Describe Strategy Sound deadening, quiet track, and stock muffler to lower radiated and
mechanical noises.
Performance Maintenance Describe Strategy Add turbo charger to gain power and lose weight to help handling.
Other Unique Features of Your Snowmobile Describe StrategyE85 fuel to reduce emissions and gain power

Special Measurements Needed for Acceleration Event

Inside Ski Stance_34¼_inches Outside Ski Stance_46¾_inches Front Bumper Height_21_inches