



APPENDIX A  
Snowmobile Description Form for IC Engine Sleds

Please fill out the following form and return it to the registration desk. Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).

Team Name North Dakota State University Team Number: 4

Chassis-Year and Model 2010 Polaris IQ LX

Engine  
Engine Cycle (2-stroke, 4-stroke, or rotary) 4-stroke Number Of cylinders 3

Engine Displacement (cc) .898 L 898 cc

Engine Manufacturer Kubota

Engine Modifications (if any) None

Compression Ratio 24:1

Turbocharged or Supercharged? Yes or No – If Yes circle one

Engine Management System \_\_\_\_\_

Fuel Delivery -Carburetors, EFI, DI, SDI – (circle one) \_\_\_\_\_

Fuel Pump Pressure 8 psi Fuel Type (circle one) gasoline diesel

Emission Control  
Air/Fuel Ratio Chosen (lean, stoichiometric?) Rich

Catalyst? Type? \_\_\_\_\_

Secondary Air Injection? - Yes or No (circle one)

Exhaust Gas Recirculation? – Yes or No (circle one)  
Other \_\_\_\_\_

Noise Control  
Muffler Design DPF, DOC, exhaust exit in tunnel

Noise Treatment Rubber coat and foam

Cooling  
Describe Strategy Intercooler for turbocharger; front mounted radiator, track cooler, rear tunnel cooler, and side rail cooler

Other Unique Features of Your Snowmobile  
Describe Strategy water methanol injection to cool combustion temperatures