A picture containing room, gambling house, scene

Description generated with very high confidenceMARP Test Stand Field Guide

Project GATOR

Test Director and Lead Propulsion Engineer: Matthew Methe

A picture containing room, gambling house, scene

Description generated with very high confidenceGeneral Test Stand Overview

Project Name: Gator

Motor Name: Gator I

Fuel: Paraffin wax insert

Oxidizer: Nitrous Oxide @ 72°F… ~650 PSI

Main Line Actuation: Pneumatic via 35 PSI pilot valve

Injector: Hand machined, 4 ports, inserted 45° into combustion chamber

Nozzle: Hand machined, Exit to Throat Ratio of 3.5 to 1

Processing: Arduino Uno R3

Power Available: 5 Volts via Arduino Uno R3, 12 Volts via battery, 24 Volts via battery or power supply

Safety Features: Flight certified Marotta check valve, 2 manual hand valves in line, fire extinguisher

Additional Features: Passive cooling system

A picture containing room, gambling house, scene

Description generated with very high confidenceSoftware Sequence of Events

A picture containing room, gambling house, scene

Description generated with very high confidenceElectrical Schematic

A close up of a map

Description generated with high confidence

& Battery

Procedure

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