



# **OA-II VEH PAM System Design**

**DR00005**

**Rev: A01**  
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# Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
1.1	Scope . . . . .	2
1.2	Purpose . . . . .	2
1.3	Relevant Documents . . . . .	2
1.4	Revision History . . . . .	2
<b>2</b>	<b>Battery Management</b>	<b>3</b>
<b>3</b>	<b>Power Supplies</b>	<b>4</b>
<b>4</b>	<b>Active Devices</b>	<b>5</b>
4.1	Valves and Solenoids . . . . .	5
4.2	Stepper and Servo Motors . . . . .	5
4.3	Pyrotechnic Devices . . . . .	5

# 1 Introduction

## 1.1 Scope

This document covers battery and power management technology for use in the OA-II VEH system.

## 1.2 Purpose

The OA-II system design has high power requirements in a constrained form factor. This power must be provided by batteries and managed to prevent overheating or damage to components. Additionally, as all functions of the flight vehicle depend on receiving adequate power at all times, the supply must be stable and redundant.

In addition to power, the vehicle has a variety of different actuators for control. These may include pyrotechnic devices, solenoids, valves, stepper and servo motors, and other active devices. These must be controllable at all times.

## 1.3 Relevant Documents

## 1.4 Revision History

Rev	Author	Approver	Changes	Date
A01			Initial draft	

*Table 1: Summary of Revision History*

## **2 Battery Management**

## **3 Power Supplies**

## **4 Active Devices**

### **4.1 Valves and Solenoids**

### **4.2 Stepper and Servo Motors**

### **4.3 Pyrotechnic Devices**