Advanced Energy Vehicle

Lab 09: Performance Test 1
AEV Project Objective
(Problem Definition)

INITIAL CONCEPTS
(Brainstorming)

EXPERIMENTAL RESEARCH
(System Analysis) (Programming)

ANALYZE

COMPARE

PT 1
PT 2
PT 3
PT 4

DESIGN DECISION

RESEARCH

FINAL DESIGN

Present AEV Design
Lab Objectives

- Build a second AEV concept to compare with the initial concept.
- Test, using the same operational procedures as Energy Analysis Labs.
- Determine and compare the energy used for both AEV operations.
Data Analysis – What does it mean?

Labs
- AEV and AEV Component Testing and Analysis

PT1
- AEV Concepts Testing and Analysis

PDR
- AEV Operational and Component comparisons
- Design decisions and supportive data for selected AEV concept
Performance Test 1 – Test Readiness Review

Requirements

- A small document reviewing what the team is going to accomplish this week and who is going to accomplish what tasks.

- Performance Test 1: Create two different AEV vehicles and determine which system is a better, energy efficient vehicle.

- Due: **Beginning of PT1 – Lab 9A!**
Performance Test 1 – Lab Memo Requirements

- Assemble Second AEV Concept.

- Discuss the necessary tests needed in order to complete the concept comparisons, and testing strategies (division of the team) to accomplish the goals.

- Discuss the results from the necessary tests.

- Finish Tasks for Performance Test 1 and write summary results as part of Preliminary Design Report (PDR).
Questions?