Team Name: sdmay24-08 Team Members: Andrew Sailer, Jesse Gillingham, Cody Draper, Akash Setti Report Period: Sept 25-Oct 8

Summary of Progress in this Period

- Verified reward allocation and collection system.
- Improved complete coverage algorithm to not waste time searching outside of boundary.
- World simulation padding is now calculated from world dimensions.
- Drone movement speed (step size) calculated based on desired overlap percentage of images.

Pending Issues

- Expand complete coverage algorithm to non-rectangle shapes and maintain optimal pathing.
- Make sure code conforms to OpenAI Gymnasium API. This is important so we can easily implement RL algorithms in the future.

Plans for Upcoming Reporting Period

- Start researching RL algorithms.
- Read OpenAI Gymnasium API documentation and make sure code conforms.