**Unit Test Plan CLASS: OWNER STUDENT NUMBER 18002538**

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| **Test Case** | **Method and Parameters** | **Expected Output** |
| Create staff account successfully | createStaff(name) | Staff ID |
| Create staff account unsuccessful | createStaff(name, surname, staff ID, gender) | Error message |
| Display Area ID | displayAreaID(area name) | Display the unique areaID of the area name inserted. |
| Display Area ID unsuccessful | displayAreaID(areaAddress) | Error message: Could not find area information based on that input. |
| Request to see Operation state | viewOperationState(areaID) | Display the Operation state of the area, this is capacity of area minus operation state number found in Controlled Area. |
| Request to see Operation state unsuccessful | viewOperationState(areaAddress) | Error message: Can not find Operation state |
| View Area Data | viewAreaData(areaID) | Display the area information matching the areaID |
| Unable to view area data | viewAreaData(crownpassID) | Error message: Could not find area information based on that input |
| Register an area | registerArea(name, address, type, capacity, contact number) | A new Controlled Area has been successfully created with all the correct information. |
| Unsuccessfully register an area | registerArea(name, address, capacity) | Error message: Required fields to create Controlled Area have not been provided. |
| Manually update area | manualUpdateArea(areafield) | Area fields should be updated occurring to new data |
| Unable to update area | manualUpdateArea(ownerID) | Error message: This was not a valid input for area fields. |