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| **Project Name: Project 1: Voting System Team# 3** | |
| **Test Stage: Unit X\_\_ System \_\_** | **Test Date: 4/2/2020** |
| **Test Case ID#: stv\_candidate\_UT005** | **Name(s) of Testers: Bryan Baker** |
| **Test Description:**  **The test verifies that stv candidates have the number of ballots increased when ballots are added. The IncrementNumBallots method is the method called by add ballot to set the new number of ballots for the candidate.** |  |
| **Automated: yes\_X\_\_ no \_\_\_** | **Test File: candidate\_UT.cc**  **Method: TEST\_F(STVCandidateTests, IncrementNumBallots)** |
| **Results: Pass \_\_X\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  **Create one stv candidate objects, candidate1 and two ballot objects ballot1 and ballot2.** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Check the initial value of the number of ballots for candidate1 | candidate1 | 0 | 0 |  |
| 2 | Add ballot 1 to candidate1 | candidate1, ballot1 |  |  |  |
| 3 | Check the number of ballots for candidate1 | candidate1 | 1 | 1 |  |
| 4 | Add ballot 2 to candidate1 | candidate1, ballot2 |  |  |  |
|  | Check the number of ballots for candidate2 | candidate2 | 2 | 2 |  |

**Post condition(s) for Test:**

It is known that an stv candidate object will have its number of ballots incremented when ballots are added to it.