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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\_UT008** | **Name(s) of Testers: Bryan Baker** |
| **Test Description:**  **The test verifies that stv candidates can have their ballot lists accessed.** |  |
| **Automated: yes\_X\_\_ no \_\_\_** | **Test File: candidate\_UT.cc**  **Method: TEST\_F(STVCandidateTests, RemoveBallotList)** |
| **Results: Pass \_\_X\_\_\_ Fail\_\_\_\_\_\_\_\_** |  |
|  |  |
| **Preconditions for Test:**  **Create one stv candidate objects, candidate1** | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
| 1 | Check the initial number of ballots for candidat1 | candidate1 | 0 | 0 |  |
| 2 | Try to pull the ballot list from candidate2 | candidate2 | std::list<Ballot\*>{} | std::list<Ballot\*>{} |  |
| 3 | Add ballot1 | candidate2, ballot1 |  |  |  |
| 4 | Check the number of ballots | candiate2 | 1 | 1 |  |
|  | Check the first item in the ballot list | candidate2 | ballot1 | ballot1 |  |
|  | Add ballot2 | candidate2, ballot2 |  |  |  |
|  | Check the number of ballots | candidate2 | 1 | 1 | Since the list was removed it should be zero |
|  | Check the last item in the ballot list | candidate2 | ballot2 | ballot2 |  |
|  | Add ballots 1 and ballots 2 | candidate2, ballot1, ballot2 |  |  |  |
|  | check the size of the ballot list removed | candidate2 | 2 | 2 |  |
|  |  |  |  |  |  |

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

It is known that an stv candidate object can have its ballot list removed.