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| **Student Name** | **Student ID** | **Date** |
| Alex Dinardo | 100737587 | February 15th, 2011 |
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| **Use Case Name:** | **Disarm System** |
| **Brief Description:** | The user uses the keypad interface to send the disarm signal to the system. Password verification is needed for this function. |
| **Precondition** | The system is enabled.  The system is armed. |
| **Primary Actor** | Keypad |
| **Secondary Actors** | Alarm, Sensor |
| **Dependency** | INCLUDE USE CASE Enter Password |
| **Generalization** |  |

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| **Basic Flow** | |
| **Step #** |  |
|  | The disarm system button on the keypad is pressed. |
|  | INCLUDE USE CASE Enter Password |
|  | The system VALIDATES THAT password is correct. |
|  | The system sends disarming signal to all connected cells. |
|  | The system sends a disarming signal to all connected alarms. |
| **Postcondition**: | The system is disarmed. |

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| **Specific Alternative Flows**: The Enter Password use case has been ABORTED. | | |
| **BFS** 2 | **Branching action** | |
|  | **Steps** | **Action** |
|  | ABORT |
| **Postcondition**: | System remains armed. | | |

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| **Specific Alternative Flows**: The entered password is invalid. | | |
| **BFS** 3 | **Branching action** | |
|  | **Steps** | **Action** |
| 1) | System handler sends ‘invalid password’ message to Display. |
|  | 2) | ABORT |
| **Postcondition**: | User is notified of invalid password. System is not armed. | | |