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| **Student Name** | **Student ID** | **Date** |
| Michael Wright | 100741876 | February 15th, 2011 |
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| **Use Case Name:** | **Invalidate Break-in** |
| **Brief Description:** | The system handler waits for a pre-determined short interval, during which the owner can enter the password to invalidate the alarm process started by the “break-in” signal. If password received the break-in will be nullified. |
| **Precondition** | The system is enabled.  Break-in timeout pending. |
| **Primary Actor** | Keypad |
| **Secondary Actors** |  |
| **Dependency** | INCLUDE USE CASE Enter Password  EXTENDED BY USE CASE Handle Break-in |
| **Generalization** |  |

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| **Basic Flow** | |
| **Step #** |  |
|  | A sensor sends a break-in signal to the system (or fails to respond to a self-test signal before the self-test timeout expires) |
|  | INCLUDE USE CASE Enter Password |
|  | The system validates that password is correct. |
|  | The system cancels the pending break-in timeout. |
| **Postcondition**: | Break-in has been invalidated.  Break-in timeout is no longer pending. |

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| **Specific Alternative Flows**: Password is not valid | | |
| **BFS** 3 | **Branching action** | |
|  | **Steps** | **Action** |
|  | EXTENDED BY USE CASE Handle Break-in |
| **Postcondition**: | Break-in has been handled | | |

Test Plan:

1. Assert basic flow path satisfies it’s post conditions.

2. Assert if password is not valid, “Password is not valid” alternative flow is satisfied and the USE CASE Handle Break-in has been extended.