End to End Manual Tests Based on Functional Requirements

Fire Station Destruction (FR_VIEW_TIMER, FR_STATION_DESTROY)

This test is to test that the fire station gets destroyed

MAN DESTROY FIRESTATION

Open game

Close controls screen

Click start

If a timer and warning message about fire station destruction is displayed

Wait Out timer

If the firestation is destroyed and trucks can not be healed or refilled anymore

Pass

Else

Fail

Minigame Run Victory (FR_ACCESS_MINIGAME)

This test is to test that the minigame can be played and won, and when this happens a victory screen appears

MAN MINIGAME WIN

Open game

Close controls screen

Click start

Use trucks to destroy all fortresses

If minigame launches

Complete minigame and defeat the alien

If a game over 'win' screen appears

Pass

Else

Fail

Minigame Run Loss (FR_ACCESS_MINIGAME)

This test is to test that the minigame can be run and lost, and if you still have engines remaining you are returned to the main game and the fortress you just killed is respawned at low health so you can kill it again and re attempt the minigame.

MAN MINIGAME LOSS NOENGINES

Open game

Close controls screen

Click start

Use trucks to destroy all fortresses

Only have a single firetruck left to kill the final fortress

If minigame launches

Lose Minigame

If a game over 'lose' screen appears

Pass

Else

Fail

This test is to test that the minigame can be run and lost, and if you have no fire engines remaining you are taken to a game over losing screen.

MAN MINIGAME LOSS ENGINES

Open game

Close controls screen

Click start

Use trucks to destroy all fortresses

Have multiple engines left at end of game

If minigame launches

Lose Minigame

If return to main game with one less fire engine and the final fortress to be killed will respawn with a small amount of health

Pass

Else

Fail

Fortresses improving over time (FR_WATER)

A test to test that fortresses improve overtime.

MAN_FORTRESSIMPROVEMENT

Open game

Close controls screen

Click start

Wait out displayed improvement timer

If fortress stats such as range, health, damage increase

Pass

Else

Fail

Patrols Spawning over time (FR_PATROL_INCREASE)

A test to test that patrols spawn as the game is played not just at the start.

MAN_PATROL_SPAWN

Open game

Close controls screen

Click start

Use trucks to kill a patrol

Wait 10 seconds

If a patrol spawn Pass Else

Fail

Bomber following Truck to blow it up (FR_PATROL_SIGHT, FR_AI)

A test to test that patrols use AI to follow fire trucks in range, and if they can no longer see the truck then they use AI to path back to their old patrol path.

MAN PATROL FOLLOW

Open game

Close controls screen

Click start

Use truck to get within 4 tiles of bomber patrol

If patrol now follows truck until the truck gets 6 tiles away and then returns to its old patrol path

Pass

Else

Fail

Patrol causing damage to fire trucks (FR_PATROL_ATTACK,FR_PATROL_DAMAGE)

A test to test that patrols can cause damage to fire trucks within their range.

MAN PATROL ATTACK

Open game

Close controls screen

Click start

Place truck in patrol path

If when the patrol is in range of the truck it attacks and deals damage

Pass

Else

Fail