## **FUNCTIONAL TESTING**

1 Call giveWeather(WeatherData)

	Unit Test Cases	Test Data	Expected Result
	Check if device can be turned on by		
1	pushing the 'on' button.	Device	Device turns on.
	Check if device can be turned off by		
2		Device	Device turns off.
_	Check if weather sensor can be	Device	Device turns on.
3	turned off.	Device, sensor	Sensor turns off.
	Check if weather sensor can be	,	
4	turned on.	Device, sensor	Sensor turns on.
	Check if device displays weather data		Displays weather
5	information.	Device	data on device.
			Displays weather
6	Check if device displays forecast.	Device, Tower forecast	forecast.
Ū	encolor il device dispidys for couse.	Device, Force Torcease	10100001
	NON-FUNCTIONAL TESTING		
	Unit Test Cases	Test Data	Expected Result
	Chack concor mascuroment devices		Potriovos woathor
1	Check sensor measurement devices	Sensor hardware	Retrieves weather
1	Check sensor measurement devices are functioning.	Sensor hardware	measurements.
1	are functioning.	Sensor hardware Sensor communication.	
			measurements. Reports the
	are functioning.		measurements. Reports the
	are functioning.	Sensor communication. Sensor communication, Tower	measurements. Reports the sensors status.
2	are functioning.  Check to see if sensor is functioning.	Sensor communication. Sensor communication, Tower	measurements. Reports the sensors status. Stores the weather measurements.
2	are functioning.  Check to see if sensor is functioning.	Sensor communication.  Sensor communication, Tower Communication, Tower archive	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather
2	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor
2	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are	Sensor communication.  Sensor communication, Tower Communication, Tower archive	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are functioning.	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are functioning.	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling
3	are functioning.  Check to see if sensor is functioning.  Check the archiving of weather data.  Check to see if network signals are functioning.	Sensor communication.  Sensor communication, Tower Communication, Tower archive  Sensor communication, Tower Communication, Display	measurements. Reports the sensors status.  Stores the weather measurements.  Passes the weather data and sensor data to the calling

calling component.

## **TOWER COMMUNICATION**

Retrieves sensor
1 Call getStatus() status.

Communicates
weather data to
Call giveWeather()
calling component.

**TOWER ARCHIVE** 

weather data to

1 Call giveWeather() calling component.

Communicates

**SENSOR COMMUNICATION** 

Retrieves sensor

1 Call getStatus() status.

Retireves weather

2 Call getWeather() data.

SENSOR DATA ANALYSIS

Retireves weather 1 Call getWeather() data.