CLAIMS:

1. A water attraction dispatch system, comprising:

a water attraction;

a plurality of sensors of the water attraction; and

a dispatch controller comprising a processor and a memory, wherein the memory stores instructions executable by the processor, the instructions configured to cause the dispatch controller to:

receive attraction condition data from the plurality of sensors of the water attraction, wherein a portion of the plurality of sensors comprises a network of strain gauge sensors along a slide path of an individual slide of the water attraction;

determine guest position data on the individual slide based on the network of strain gauge sensors and a strain map of the individual slide, wherein the strain map corresponds to a profile of the individual slide associated with the guest position data; determine a dispatch status of the individual slide of the water attraction based on the attraction condition data and the guest position data, wherein the determined dispatch status comprises a permit dispatch status or a deny dispatch status; and transmit a signal indicative of the dispatch status to a controller of the water attraction.

2. The system of claim 1, wherein the received attraction condition data comprises water level data, water flow data, water composition data, water pH data, environmental changes, weather changes, or a combination thereof.

3. The system of claim 1, wherein the received attraction condition data comprises guest status data, guest position data, or a combination thereof.

4. The system of claim 1, wherein the network of strain gauge sensors is configured to measure guest-associated deflection propagated along the network, wherein the guest-associated deflection is compared to a plurality of characteristic deflection profiles of the strain map to determine guest location on the individual slide.

5. The system of claim 1, wherein a default state of the water attraction is the deny dispatch status.

6. The system of claim 1, wherein the stored instructions are configured to cause the dispatch controller to determine or maintain the deny dispatch status based on the attraction condition data from only one sensor of the plurality of sensors being out of tolerance.

7. The system of claim 6, wherein the received attraction condition data is out of tolerance based on a measured data value of the attraction condition data being outside of a predetermined range, above a pre-determined threshold, or below the pre-determined threshold.

8. The system of claim 7, wherein the received attraction condition data is out of tolerance when a measured water pH is outside of a range of about 7.2 to about 7.8.

9. The system of claim 7, wherein the received attraction condition data is out of tolerance when a measured water level in the attraction is lower than a pre-determined level.

10. The system of claim 1, comprising a gate controller located at a dispatch location of the water attraction, wherein the determined dispatch status comprising the deny dispatch status causes the gate controller to close a gate or keep the gate closed.

11. The system of claim 1, comprising a light indicator located at a dispatch location of the water attraction, wherein the determined dispatch status comprising the permit dispatch status causes the light indicator to drive a light source.

12. The system of claim 1, wherein the determined dispatch status comprises a first dispatch status of an individual slide of a multi-side attraction, the first dispatch status comprising the deny dispatch status based on the received attraction condition data of an individual sensor of the plurality of sensors, the individual sensor associated with the individual slide and a second dispatch status of other slides of the multi-side attraction, wherein the second dispatch status comprises the permit dispatch status.

13. The system of claim 1, wherein the determined dispatch status comprises an overall dispatch status for slides of a multi-slide attraction, the overall dispatch status comprising the deny dispatch status based on the received attraction condition data of an individual sensor of

the plurality of sensors, wherein the individual sensor is associated with a shared water source for the slides of the multi-slide attraction.

14. A water attraction dispatch system, comprising:

a water attraction;

a plurality of sensors of the water attraction; and

a dispatch controller comprising a processor and a memory, wherein the memory stores instructions executable by the processor, the instructions configured to cause the dispatch controller to:

receive attraction condition data from the plurality of sensors of the water attraction;

determine a deny dispatch status for an individual slide of a plurality of slides of the water attraction based on attraction condition data associated with the individual slide;

determine a permit dispatch status for other slides of the plurality of slides of the water attraction based on attraction condition data associated with the other slides and attraction condition data of a shared water resource; and

transmit a signal indicative of the deny dispatch status and the permit dispatch status to a controller of the water attraction;

wherein the plurality of sensors comprises a network of strain gauge sensors along a slide path of the individual slide; and wherein the network of strain gauge sensors and a strain map corresponding to the individual slide associated with a measured guest-associated deflection by the network of strain gauge sensors are used to determine a guest position.

15. The system of claim 14, wherein the measured guest-associated deflection is used in conjunction with a guest traveling speed to determine the permit dispatch status or the deny dispatch status.