

## **ASWDS as an alternative to OVERFLOWING SANITARY SEWERS.**

In 1994 Attitude Systems developed the ASWDS (Automatic StormWater Diversion System) to provide a choice over the regulatory concerns of NOT allowing stormwater to illicitly enter sanitary sewers via open sewer connections.

### THE CHALLENGE

Before the Attitude Systems ASWDS roofing above open air sewer connections like wash racks and truck docks was the norm. The only automated systems available were either custom engineered hybrids or mechanical and required high maintenance cycles.

The objective was to create a system that was low cost, reliable and met a plethora of applications. By defining several parameters unique to ASWDS our system logic allowed us to provide custom configurable systems without the one off engineering cost, especially automatic maintenance functions. The main characteristics that made this system possible were:

- 1) A variety of automatic event triggers like rain gauges, flow meters and level sensors to allow the adaptation of the system to most environments.
- 2) User configurable timers and counters allow the system to meet regulatory requirements now and in the future should regulations or the environment change.
- 3) Automatic exerciser features allows the system to remain autonomous while keeping the working components in good working order.
- 4) Unique breakthroughs like IP 68 submersible electric motor operators and cord glands make the system more forgivable in harsh environments than traditional components.
- 5) Properly specified system components like full port valves, means the system will work with little maintenance for decades.
- 6) Pre-wired, pre-configured and pre-tested system make installation and start-up quick and simple.

With a history of worldwide automation and a global market to select the best components these objectives were met. The most expensive equipment was not selected, the most practical and proven equipment was. The equipment coupled with a deeply defined database of ASWDS logic provides an easily to integrate system.

## How it works

Simply put the system is made of (3) main components working together as a system to prevent illicit discharge of stormwater or wastewater.

- (A) EVENT TRIGGER this determines when the system should divert flows I.E. Rain gauge/switch, flow switch..... These come pre-wired to reduce field termination cost as well as pre-tested to ensure the systems integrity prior to installation.
- (B) EVENT DIVERTER this is means in which the flow gets redirected automated 2-way valves, automated 3-way valves, pumps... These come pre-wired to reduce field termination cost as well as pre-tested to ensure the systems integrity prior to installation.
- (C) EVENT CONTROLLER this is the heart of the system that contains the logic and displays system status. This is where all wiring termination come and the system can be check for functionality as well as condition.

## Conclusions

When roofing is not practical, desirable or cost effective, the Attitude Technology ASWDS has proven itself at meeting regulatory and operational requirements. In a variety of industries and applications from airports and military bases to zoos and vineyards the Attitude Technology ASWDS has 20 years of success. If not allowing stormwater into the sanitary sewer or waste water into the storm drain is a concern, the Attitude Technology ASWDS may be your solution.

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