



**LIBERTY**  
BUILDING FORENSICS GROUP

*All Things Moisture*

# CASE STUDY

**Project: Resort - Nassau, Bahamas**  
**Confidential Client**



## **CHALLENGE:**

Frequent CPVC pipe failures in a timeshare resort facility

## **SOLUTION:**

Liberty investigated to determine conditions surrounding the pipe break events.

## **RESULTS:**

Recommendations for proactive remediation (including pipe testing) provided

## **CASE EXPERTS:**

**J. David Odom** – Principal Investigator

**Chuck Allen** – Forensic Architect

## **SERVICES PROVIDED:**

Based on field and laboratory analysis, Liberty Building Forensics Group (Liberty) advised that the likelihood of additional pipe failures over the next five years was high. By recommending how to test and identify problem piping to proactively avoid more damage, Liberty enabled the hotel to remain operational while piping replacement occurred.

## **CASE SUMMARY:**

The hotel's documented leak history reflected an average of one CPVC pipe failure per month, with multiple units often being affected by water damage each time. Although most documented leaks were in the hot water piping, some also occurred in the cold water lines. Nearly all leaks had occurred at floor penetrations where sealant had been used as fireproofing during original construction.

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