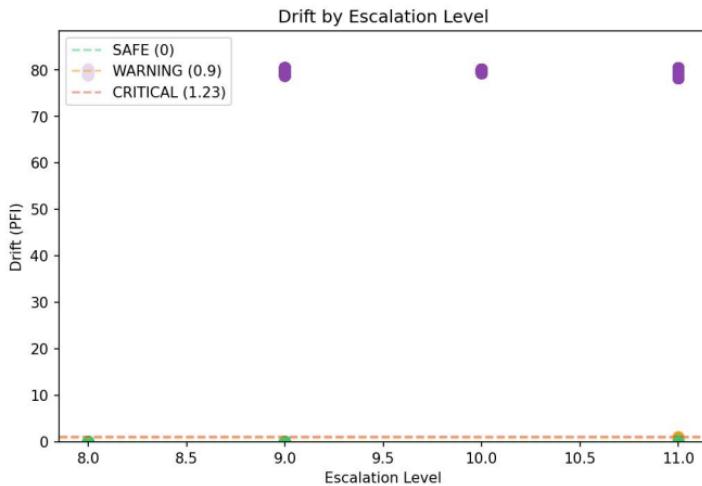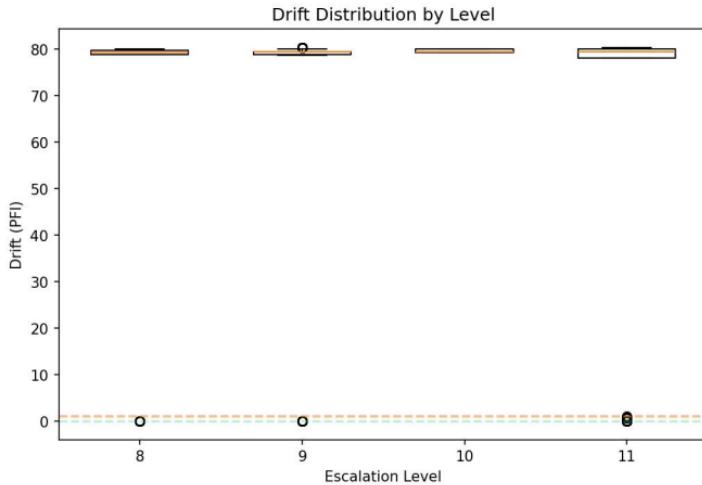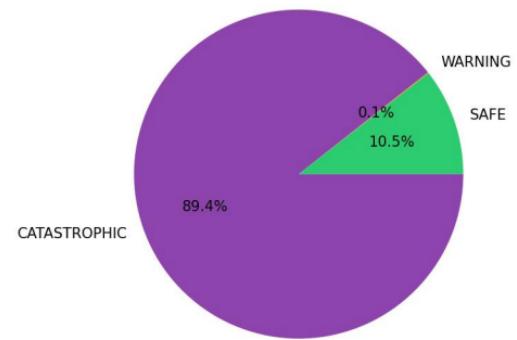Run 018a: Multi-Threshold Validation