Positive Pressure Test Project Planning

Design Requirements

Test Type: Positive Pressure Room

Survey Date: Feb 10th, 2024

Floorplan: All Negative Pressure Tests jpeg.png

Manage OPs/SPs

Test Area:

Square: 216 sq.ft

Ceiling Height: 9 ft

4-Way AS		SKC	
Origin Points: 1	**Interval Count:** 4	**Origin Points:** 1	**Interval Count:** 1
Sample Points: 1	**Interval Duration:** 4-way	**Sample Points:** 4	**Interval Duration:** SKC

Comments:

Design Requirements

Scenarios

	SCENARIO 1: NORMAL OPERATING CONDITIONS WITH IN/OUT TRAFFIC	SCENARIO 2: EF FAILURE WITH IN/OUT TRAFFIC
NAME	Scenario 1: Normal Operating Conditions With In/Out Traffic	Scenario 2: EF Failure With In/Out Traffic
DESCRIPTION	BSL 3 Test Area Is Under Normal Operating Conditions	BSL 3 Test Area EF Failure
TEST DATE	2024-02-11	2024-02-11
TEST START TIME	08:10 AM	11:38 AM
OP COUNT	2	2
OP-001 TAG	Tag-C7	Tag-C6

Design Requirements

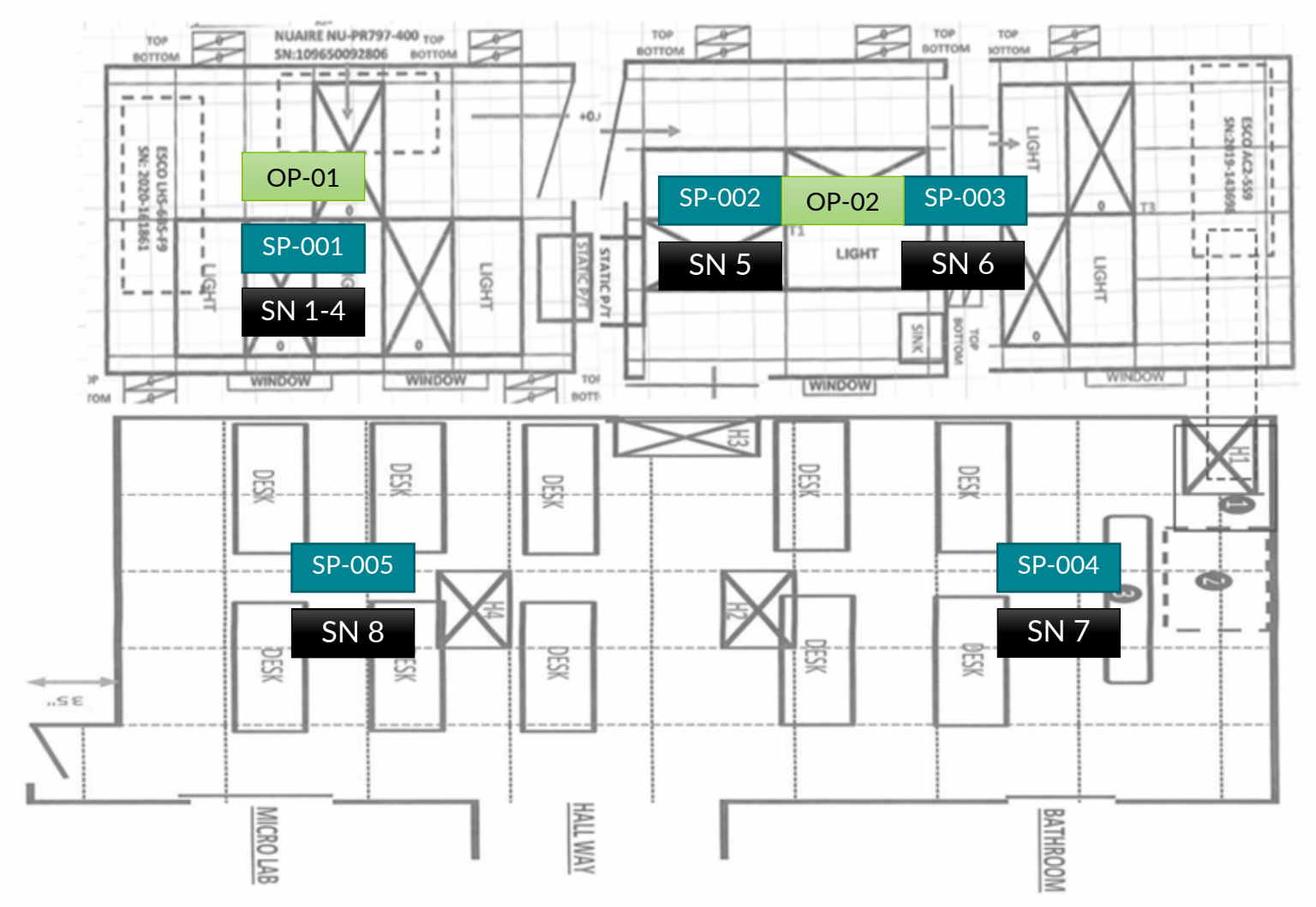
OP-002 TAG	Tag-B1	Tag-B2
SP-001 SAMPLE NUMBERS	SN-001 To SN-004	SN-009 To SN-012
SP-002	SN-005	SN-013
SP-003	SN-006	SN-014
SP-004	SN-007	SN-015
SP-005	SN-008	SN-016

Design Requirements

HVAC ACH	21.2	21.2
PEC ACH		
SELECTOR KNOB ACH SETTING	16 - 24	16 - 24
TEST DURATION (MIN)	20	20
ACH PASS/FAIL	6	6
INFILTRATION PASS/FAIL	1	1
DeltaP SP-002 vs SP-001	0.053	0.053
DeltaP SP-003 vs SP-001	0.053	0.053
DeltaP SP-004 vs SP-001	0.004	0.004

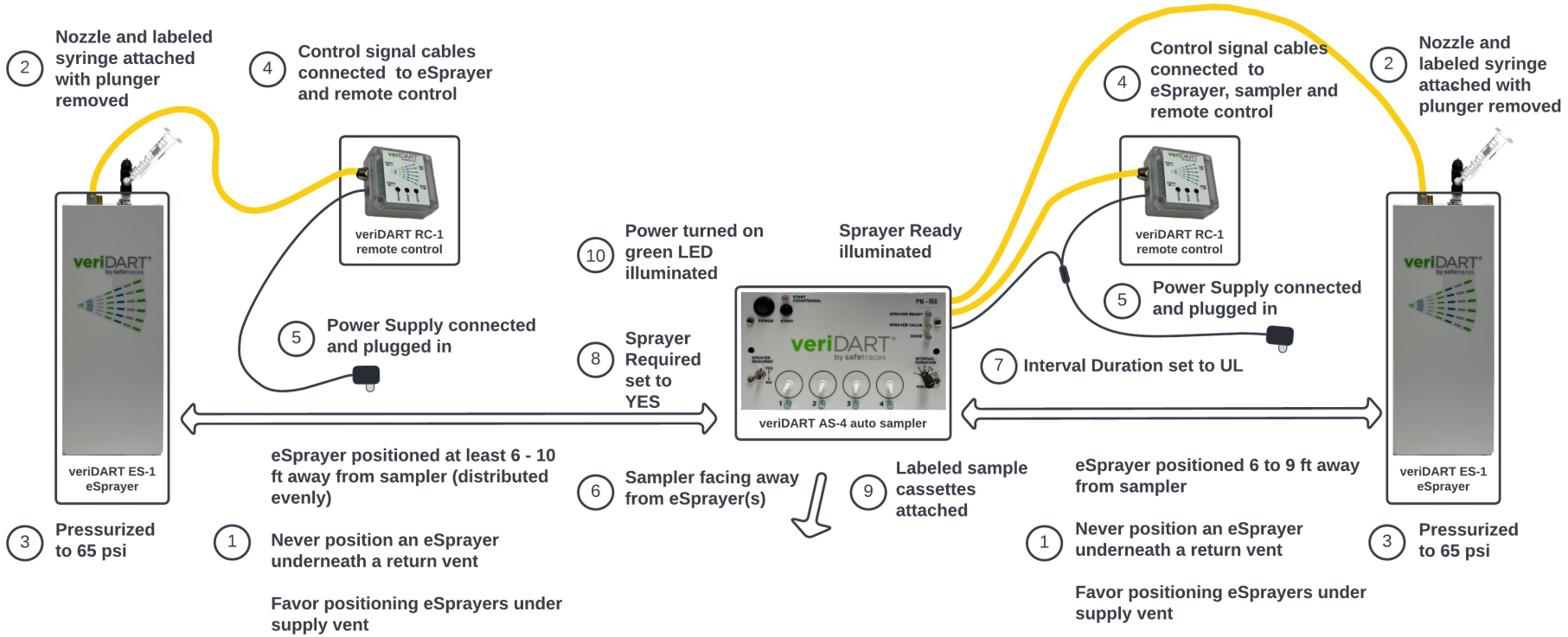
Position OPs and SPs on the Floor Plan

OP/SP Number	OP/SP Location
OP-01	Non-HD Room
OP-02	Ante Room
SP-001	Non-HD Room
SP-002	Ante Room Left
SP-003	Ante Room Right
SP-004	Classroom Right
SP-005	Classroom Left



Equipment for Positive Pressure Test

Positive Pressure Test Set-Up



Best Practices

- Get a cart to help carry the equipment
- Connect two wireless remotes and two eSprayer to get simultaneous releases and start
- Verify the 4-Channel air-sampler interval setting (ACH) selection is on the correct ACH
- Turn on the single Channel Air Samplers during set-up
- Verify the locations of HVAC supply and returns for equipment positioning
- Do not pre-label the sample cassettes
- Make sure the sample cassettes are snuggly attached to the air sampler
- Listen for the “click” sound of the “nozzle” when attaching to the eSprayer

Best Practices

- Wear gloves when handling Tags
- Make sure the “plunger” is removed from the syringe
- Remove pelican, unused equipment, supplies, etc. before starting the test
- If you have to “redo” a test for any reason, use a different Tag
- After the test verify the “Done” green light is visible on the 4-Channel Air Sampler
- Verify the sample number label on each sample cassette are in the correct order before removing from the air sampler
- Document all changes on the “Project Configuration” form

Results Visualization

Description	eACH	SP-001	SP-002	SP-003	SP-004	SP-005
Dynamic Scenario	132.94	3.05%	0.38%	0.04%	0.04%	0.65%

Sample type: **filter**
HVAC ACH: **37**
PEC ACH: 95
ACH pass/fail: **30**
Leakage pass/fail: **1**

Results Evaluation

Pass

Failure

N.A.