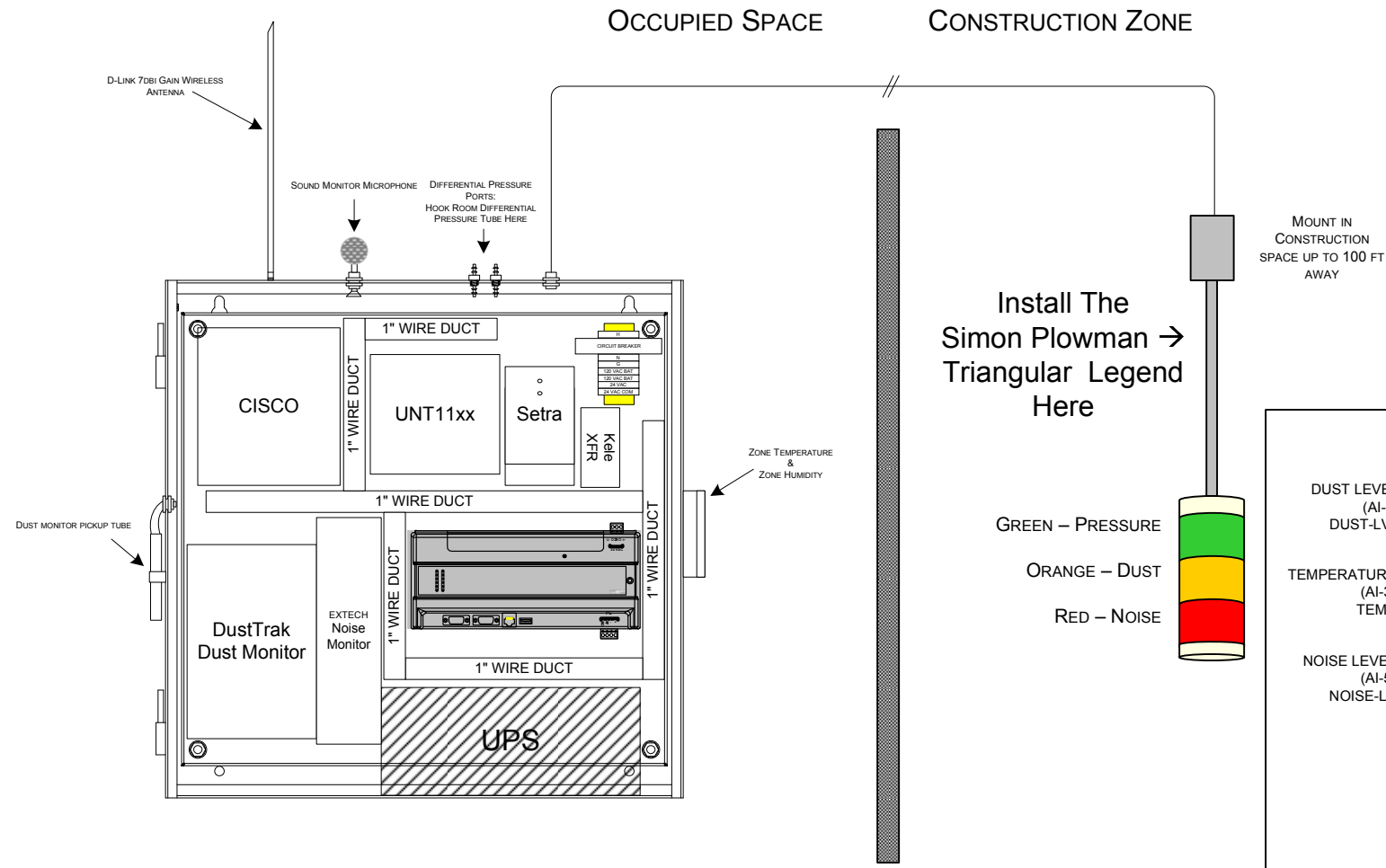
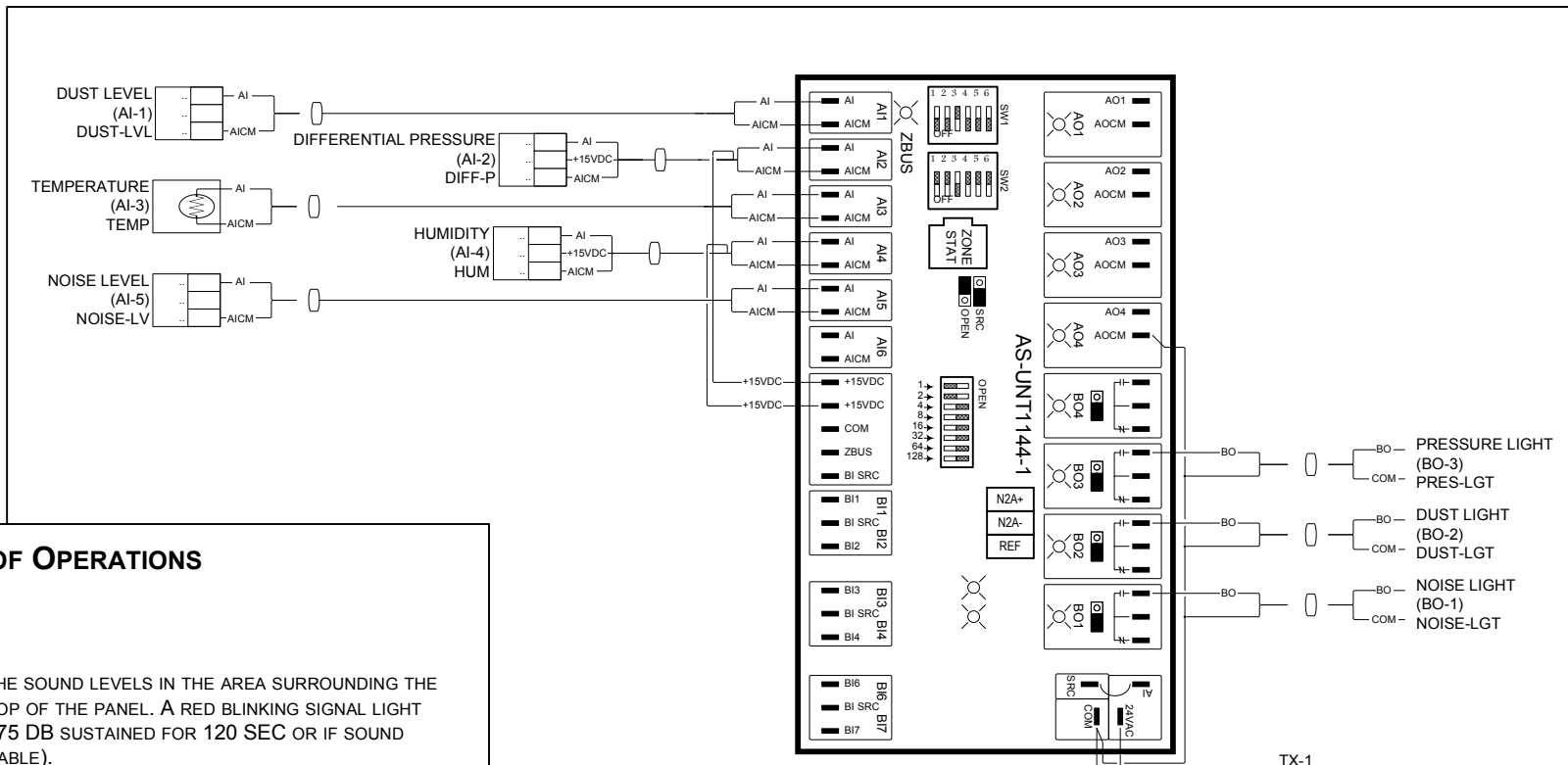


Mercy NDP Panel – Construction Monitoring Panels



Bill of Materials			
Designation	#	Part Number	Description
Panel Devices			
Dust Monitor	1	DustTrak	Model 8520
Noise Monitor	1	Extech	Model 407780
Room Differential Pressure	1	DPT2640-005D	PRESS SENS,DP,0-5" WC,VDC,0.5%
UNT Controller	1	AS-UNT1144-0	CNTRLR,DIG,UNT,6AI,6BI,4AO,4BO
UPS - Battery Backup	1	UPS	Model 200893
Wireless Access Point	1	CISCO Bridge	
ZN-T / ZN-H	1	HE-67N2-1B00W	SENSOR,2%RH & 1K NI TEMP,W/C,TH,WHT,WALL



POWER UP PROCEDURES

PANEL REQUIRES 110 VAC: AFTER PANEL IS PLUGGED IN MAKE SURE CIRCUIT BREAKER IS TURNED ON:

UPS:
TO POWER UP THE UPS YOU MUST HOLD DOWN BLUE POWER BUTTON FOR A COUPLE SECONDS TILL THE UNIT BEEPS AND IS POWERED ON. WHEN LOSS OF POWER HAPPENS THE UNIT WILL BEEP TO NOTIFY LOSS OF POWER AND WILL DO SO UNTIL THE UNIT IS FULLY DEAD.

SOUND MONITOR:
PRESS THE GREEN POWER BUTTON LOCATED ON THE TOP LEFT OF THE KEY PAD ON THE DEVICE. ONCE POWERED ON THE SOUND METER WILL START TO REGISTER SOUND LEVELS. NOTE: THE UNIT CAN RUN OFF OF 4 AA BATTERIES BUT WILL NOT POWER ON IF A/C POWER CORD IS PLUGGED IN TO UNIT.

DUST MONITOR:
PRESS THE ON/OFF BUTTON AT THE BOTTOM LEFT OF THE KEY PAD. ONCE ON THE UNIT WILL GO THROUGH A BRIEF POWER UP AND THEN WILL START TO TAKE DUST LEVEL READINGS. THE UNIT IS BATTERY BACKED UP BY 4 C BATTERIES.

CISCO BRIDGE:
NO POWER UP IS REQUIRED.

NAE:
NO POWER UP IS REQUIRED.

UNT:
NO POWER UP IS REQUIRED.

SEQUENCE OF OPERATIONS

SOUND MONITOR:
THE SOUND MONITOR DEVICE WILL MONITOR THE SOUND LEVELS IN THE AREA SURROUNDING THE PANEL FROM THE MICROPHONE LOCATED ON TOP OF THE PANEL. A RED BLINKING SIGNAL LIGHT WILL ACTIVATE IF THE SOUND LEVELS EXCEED 75 DB SUSTAINED FOR 120 SEC OR IF SOUND LEVELS EXCEED 85DB AT PEAK LEVEL (ADJUSTABLE).

DUST MONITOR:
THE DUST MONITOR DEVICE WILL TAKE CONSTANT AIR SAMPLES AND MONITOR THE DUST PARTICLE LEVEL IN THE AIR SURROUNDING THE PANEL. A ORANGE BLINKING SIGNAL LIGHT WILL ACTIVATE IF THE DUST PARTICLE LEVEL GOES OVER 1 MG/M3 SUSTAINED FOR 300 SEC OR IF PARTICLE LEVEL EXCEEDS 10MG/M3 (ADJUSTABLE).

PRESSURE MONITOR:
THE DIFFERENTIAL PRESSURE DEVICE WILL TAKE PRESSURE READINGS BETWEEN THE CONSTRUCTION SPACE AND THE OCCUPIED SPACE. A GREEN BLINKING SIGNAL LIGHT WILL ACTIVATE IF THE ROOM DIFFERENTIAL PRESSURE IS LOST.

ZONE TEMPERATURE & ZONE HUMIDITY:
A ZONE TEMPERATURE SENSOR AND ZONE HUMIDITY SENSOR WILL MONITOR THE TEMPERATURE AND HUMIDITY IN THE SPACE SURROUNDING THE PANEL.

ALARM ROUTING:
WHEN AN ALARM IS GENERATED INDICATING THAT ANY OF THE NDP SENSING DEVICE HAS EXCEEDED ALARM PARAMETERS, AN EMAIL NOTE OR TEXT MESSAGE WILL BE SENT TO THE DESIGN & CONSTRUCTION DESIGNATED RECIPIENTS (PROGRAMMABLE).

Drawing Title		Panel Diagram Power Up Procedures Sequence of Operation		01/01/1999 07/01/1999 01/01/1999	
REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
H. Demetrius	John Marnatti	Kyle George	BY KMG	DATE 01/25/2008	BY DATE 0
Project Title			CONTRACT NUMBER		
Mercy - SJMMC Noise, Dust, Pressure, Temperature & Humidity Monitoring Panel			70340271		
Drawing Number			1.0		