

000000 SIGNALING SEQUENCE OF OPERATIONS

1. PARTIAL EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATION:

- A. ACTIVATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGH BUILDING AREA IN ALARM (TOWERS AND/OR TOWER C); REPEAT ALERT TONE AND GENERAL EVACUATION MESSAGE THREE TIMES
- B. AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTIVATE ALARM (TEMPORAL J) AND VISUAL EVACUATION SIGNALS (ON FLOOR OF EVACUATION AND VISUAL SIGNALS ON TOWER C) TO ACTIVATE ALARM AND VISUAL SIGNALS IN THE MAIN FIRE ALARM CONTROL UNIT IN FIRE COMMAND CENTER
- C. IN THE EVENT A SUBSEQUENT ALARM IS RECEIVED BY A FLOOR THAT WAS PREVIOUSLY OUTSIDE THE ORIGINAL EVACUATION ZONE, THE EVACUATION ZONE SHALL AUTOMATICALLY BE EXPANDED TO INCLUDE THE ORIGINAL EVACUATION ZONE, THE SUBSEQUENT ALARM FLOOR, AND FLOORS ABOVE AND BELOW THE NEW EVACUATION ZONE. ACTIVATE THE SEQUENCE OF OPERATION INDICATED IN 1.A ABOVE.

2. TOTAL BUILDING EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATION:

- A. ACTIVATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGH BUILDING ASSOCIATED MANUAL PULL STATION ACTIVATION (TOWERS AND/OR TOWER C); REPEAT ALERT TONE AND GENERAL EVACUATION MESSAGE THREE TIMES
- B. AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTIVATE ALARM (TEMPORAL J) AND VISUAL EVACUATION SIGNALS THROUGH ASSOCIATED BUILDING SIGNALS TO ACTIVATE ALARM AND VISUAL SIGNALS ON TOWER C AND IN THE MAIN FIRE ALARM CONTROL UNIT IN FIRE COMMAND CENTER
- C. IN THE EVENT A SUBSEQUENT ALARM IS RECEIVED BY A FLOOR THAT WAS PREVIOUSLY OUTSIDE THE ORIGINAL EVACUATION ZONE, THE EVACUATION ZONE SHALL AUTOMATICALLY BE EXPANDED TO INCLUDE THE ORIGINAL EVACUATION ZONE, THE SUBSEQUENT ALARM FLOOR, AND FLOORS ABOVE AND BELOW THE NEW EVACUATION ZONE. ACTIVATE THE SEQUENCE OF OPERATION INDICATED IN 2.A ABOVE.

3. PRE-RECORDED MESSAGE (THE FOLLOWING VERBAGE (OR SIMILAR) SHALL BE PROVIDED):

- A. GENERAL VOICE INSTRUCTIONS (PARTIAL EVACUATION) ATTENTION PLEASE, THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES THE REASON FOR AN EMERGENCY IN THIS BUILDING IF YOUR FLOOR OR FLOORS SOUNDS SOUND AFTER THE MESSAGE, WALK TO THE NEAREST STAIRWAY AND LEAVE THE FLOOR. WHILE STAIRWAYS ARE BEING EVACUATED, DO NOT ENTER OR USE ANY OF THE OTHER FLOORS OR STAIRWAYS UNTIL FURTHER INSTRUCTIONS.
- B. GENERAL VOICE INSTRUCTIONS (TOTAL EVACUATION) ATTENTION PLEASE, THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES THE REASON FOR AN EMERGENCY IN THIS BUILDING. STAIRWAYS ARE BEING EVACUATED, DO NOT ENTER OR USE ANY OF THE OTHER FLOORS OR STAIRWAYS UNTIL FURTHER INSTRUCTIONS.
- C. EVACUATION ALL CLEAR ATTENTION PLEASE, THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED, YOU MAY RETURN TO YOUR NORMAL ACTIVITIES.
- D. TEST ATTENTION PLEASE, THE FIRE ALARM SYSTEM WILL BE INSPECTED AND TESTED TODAY BY THE FIRE ALARM DIVISION, PLEASE DISREGARD ALL ABOVE AND VISUAL SIGNALS YOU MAY HEAR OR SEE UNTIL YOU RECEIVE FURTHER NOTICE.
- E. TEST ALL CLEAR ATTENTION PLEASE, THE FIRE ALARM TESTINGS HAVE BEEN COMPLETED FOR THE DAY.

4. WAY FLIES UTILIZED FOR PRE-ALARM T-3 SIGNALS SHALL BE A SQUARE WAVE OR PROVIDE EQUIVALENT AWARENESS ABILITY WITH A FUNDAMENTAL FREQUENCY OF 320KHZ +/- 10 PERCENT IN ACCORDANCE WITH NFPA 72 SECTION 19.4.5.3

5. LEVEL P1 AND LEVEL 11-101 OF TOWER C TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.

6. LEVEL P1 AND LEVEL 11 OF TOWER B TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.

STANDARD PRELUBRICATION SEQUENCE OF OPERATION

FOR EACH ALARM CONDITION NOTED IN THE FIRE ALARM INPUT/OUTPUT MATRIX AS HAVING A STANDARD PRELUBRICATION INITIATION FUNCTION, THE FIRE ALARM SYSTEM SHALL BE REQUIRED TO INITIATE THE FOLLOWING PRELUBRICATION SEQUENCE WITHIN TWO SECONDS OF ALARM INITIATION:

OUTER FIRE ALARM: FANS (OPEN OR CLOSE AS INDICATED IN THE FIRE ALARM INPUT/OUTPUT MATRIX)

NORMAL OPERATION: "OPEN" OR "CLOSE" SWITCH IS MADE WITHIN 75 SECONDS OF "OPEN" SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM. GREEN "Y" INDICATOR LIGHT ASSOCIATED WITH THE DAMPER SHALL BE ILLUMINATED ON THE FIRE FIGHTERS SMOKE CONTROL PANEL.

FAILURE: IF A FAILURE IN THE "OPEN" OR "CLOSE" SWITCH IS DETECTED, SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM THE YELLOW INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTERS SMOKE CONTROL PANEL. THE FIRE ALARM SYSTEM SHALL INITIATE A FAILURE IN THE "OPEN" OR "CLOSE" SWITCH WITHIN TWO SECONDS OF THE FAILURE.

SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE SUPERVISING STATION

OUTER FIRE ALARM: FANS (OPEN OR CLOSE AS INDICATED IN THE FIRE ALARM INPUT/OUTPUT MATRIX)

NORMAL OPERATION: FAN FLOWING DIRECTION DEVICES IS ACTIVATED WITHIN 60 SECONDS OF OPEN SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM. GREEN "Y" INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTERS SMOKE CONTROL PANEL.

FAILURE: IF FAN FLOWING DIRECTION DEVICES NOT ACTIVE WITHIN 60 SECONDS OF SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM THE YELLOW INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTERS SMOKE CONTROL PANEL. THE FIRE ALARM SYSTEM SHALL INITIATE A FAILURE IN THE FAN FLOWING DIRECTION DEVICES WITHIN TWO SECONDS OF THE FAILURE.

FAILURE: IF FAN FLOWING DIRECTION DEVICES NOT ACTIVE WITHIN 60 SECONDS OF SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM, LOCAL ACTUATOR SHALL DISPLAY THE CHANGE IN STATUS. THE LOCAL ABNORMAL INDICATORS ON THE FIRE ALARM CONTROL PANEL SHALL ACTUATE WITHIN TWO SECONDS OF THE FAILURE.

THE FANS AND DAMPERS SHALL STAY ON OR OFF UNTIL MANUALLY RESET AT THE FIRE FIGHTERS SMOKE CONTROL PANEL.

SMOKE CONTROL (AUTOMATIC) WEBSIDE TEST SET

1. WEEKLY SELF TEST TO BYPASS IN ACCORDANCE WITH EXCEPTION TO 2018 URBAN BUILDING CODE SECTION 909.1.2. PRESENCE OF POWER DOWNSTREAM AND DISCREPANCIES IS CONTINUOUSLY MONITORED BY THE FIRE ALARM SYSTEM AND TESTING OF ALL COMPONENTS IS REQUIRED FROM THE FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM SHALL BE REQUIRED TO INITIATE THE FOLLOWING PRELUBRICATION SEQUENCE WITHIN TWO SECONDS OF ALARM INITIATION:

Reserved for permit stamp <div style="text-align: center; font-size: 2em; transform: rotate(-90deg); transform-origin: center;">Oson Kundig</div>	<p>SOMMET BLANC - AB</p> <p>project:</p> <p>DEER VALLEY, UTAH</p>
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<p>principal architect _____ project manager: JCC _____ drawn by: CGB_SMK _____ checked by: Chicker, _____ job no. 2092 _____ date 05/17/2024 _____</p>	
<p>revisions: _____ _____ _____ _____ _____</p>	
<p>no. date by _____</p>	
<p>IFC Set 2 of 3 05/17/2024</p>	
<p>FIRE ALARM SEQUENCES OF OPERATION</p>	
<h1 style="margin-top: 0;">FA8.01</h1>	