			SYSTEM OUTPUTS																							
			NOTIFICATION										REQUIRED FIRE SAFETY CONTROL													
		FACU & FAA					EMERGENCY COMMUNICATIONS							REMOTE SIGNAL TRANSMISSION					ELEVATO	OR		SECURITY/ LIFE SAFET		MECHANICAL		
	SOMMET BLANC FIRE ALARM INPUT/OUTPUT MATRIX		ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR & AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR & AUDIBLE TROUBLE SIGNAL	☐ DISPLAY LCD CHANGE OF STATUS & PRINT EVENT	INITIATE OCCUPANT PARTIAL EVACUATION SEQUENCE THROUGHOUT BUILDING AREA IN ALARM (TOWERS AB OR TOWER C)	INITIATE OCCUPANT TOTAL EVACUATION THROUGHOUT TOWER(S) OF ASSOCIATED PULL STATION	o activate exterior waterelow bells	H NOT USED	— ACTIVATE ASSOCIATED REMOTE ALARM INDICATOR	ACTIVATE ASSOCIATED PAGING ZONE(S) AND BROADCAST MESSAGE	OVERRIDE FIRE ALARM VOICE EVACUATION MESSAGE	SWITCH TO REDUNDANT/BACK UP AMPLIFIER/TONE GENERATOR	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	RECALL ASSOCIATED ELEVATOR(S) TO PRIMARY RECALL FLOOR (SEE ELEVATOR RECALL NOTES)	RECALL ASSOCIATED ELEVATOR(S) TO ALTERNATE RECALL FLOOR (ELEVATOR RECALL NOTES)	□ ILLUMINATE ELEVATOR VISUAL WARNING SIGNAL	ω INTERMITTENTLY FLASH ELEVATOR VISUAL WARNING SIGNAL	ELEVATOR SMOKE CURTAIN	C NOT USED	CLOSE ASSOCIATED FIRE / SMOKE DAMPER	SHUTDOWN ASSOCIATED HVAC EQUIPMENT	➤ INITIATE STAIR PRESSURIZATION SEQUENCE OF OPERATION	- SHUTDOWN ALL AHUS OF TOWER IN ALARM
	1 MAIN BUILDING WATERFLOW	•			•			•						•												•
m	2 SPRINKLER ZONE WATERFLOW	•			•			•						•											•	•
ALARM INITIATING DEVICES	3 MANUAL PULL STATION (FCC)	•			•	•	•							•											•	•
	4 AREA SMOKE DETECTOR	•			•	•								•											•	
	5 KITCHEN HOOD / POLLUTION CONTROL UNIT SUPPRESSION SYSTEM ALARM	•			•	•								•											•	
	6 ELEVATOR MACHINE / CONTROL ROOM SMOKE DETECTOR  7 ELEVATOR LOBBY SMOKE DETECTOR (PRIMARY RECALL FLOOR - SEE ELEVATOR RECALL NOTES)	•			•	•								•			•	•	•		•				•	
	8 ELEVATOR LOBBY SMOKE DETECTOR (ALL OTHER FLOORS - SEE ELEVATOR RECALL NOTES)  9 NOT USED	•			•	•								•			•		•		•				•	
	10 FIRE PUMP SUPERVISORY (PUMP RUN, PHASE LOSS/REVERSAL, PUMP CONNECTED TO STANDBY POWER)		•		•										•											
	11 FIRE WATER TANK LOW / HIGH LEVEL ALARM		•		•										•											
SUPERVISORY INITIATING DEVICES	12 FIRE PROTECTION VALVE TAMPER SWITCH  13 DUCT MOUNTED SMOKE DETECTOR - FIRE/SMOKE DAMPER		•		•					•					•								•			
SUPER INITI DEV	14 DUCT MOUNTED SMOKE DETECTOR - AIR HANDLING EQUIPMENT		•		•					•					•											
	15 POLLUTION CONTROL UNIT SUPPRESSION SYSTEM TROUBLE		•		•										•											
	16 AIR HANDLING UNIT RUN / OFF														_								•			
	17 FIRE ALARM SYSTEM LOW BATTERY			•	•											•										
	18 FIRE ALARM OPEN CIRCUIT			•	•											•										
	19 FIRE ALARM GROUND FAULT			•	•											•										
SNO	20 FIRE ALARM SYSTEM BATTERY CHARGER FAILURE			•	•											•										
CONDITIONS	21 FIRE ALARM SYSTEM DEVICE COMMUNICATION FAILURE			•	•											•										
TROUBLE C	22 FIRE ALARM SYSTEM INITIATING DEVICE FAILURE  23 FIRE ALARM SYSTEM AMPLIFIER FAILURE			•	•											•										
	24 FIRE ALARM SYSTEM DIGITAL VOICE GENERATOR FAILURE			•	•								•	1												
	25 FIRE ALARM AC POWER FAILURE			•	•									1		•										
	26 FIRE ALARM CONTROL UNIT PROCESSOR FAILURE			•	•											•										
NOI.	27 MANUAL PAGE - PER PAGING ZONE				•						•	•														
EMERGENCY VOICE COMMUNICATION	28 MANUAL PAGE - ALL CALL				•						•	•														
ਜੁ≥ੋਂ					1	+						1	1	1	-	1	1	1	1	1	+			1		

			SYSTEM OUTPUTS																		
				F	FACU & FA	<b>W</b>	REI TR	MOTE SIGN	NAL ON	F	STA PRESSUR SYST	IZATION				SM PANE	OKE CON	TROL DIATION			
		R F	MET BLANC R PRESSURIZATION INPUT/OUTPUT IX		ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR & AUDIBLE SUPERVISORY SIGNAL	O DISPLAY LCD CHANGE OF STATUS & PRINT EVENT	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION VIA CELLULAR COMMUNICATOR	n NOT USED	AUTOMATICALLY INTIATE STAIR PRESSURIZATION SEQUENCE OF OPERATION (ALL SYSTEM FANS OF BUILDING AREA IN ALARM - TOWERS AB OR TOWER C	# AUTOMATICALLY DEACTIVATE ASSOCIATED STAIR PRESSURIZATION SYSTEM (STOPFAN / CLOSE DAMPER)	MANUALLY INITIATE ASSOCIATED STAIR PRESSURIZATION SYSTEM SEQUENCE OF OPERATION	MANUALLY DEACTIVATE ASSOCIATED STAIR PRESSURIZATION SYSTEM (STOP FAN /CLOSE DAMPER)	→ ILLUMINATE ASSOCIATED WHITE LED-TYPE INDICATOR LIGHT	ILLUMINATE ASSOCIATED RED LED-TYPE INDICATOR LIGHT	■ ILLUMINATE ASSOCIATED GREEN LED-TYPE INDICATOR LIGHT	ILLUMINATE ASSOCIATED YELLOW LED-TYPE INDICATOR LIGHT AND GENERAL PANEL YELLOW/AMBER LED-TYPE INDICATOR LIGHT	O ILLUMINATE ASSOCIATED BLUE LED-TYPE INDICATOR LIGHT	□ ILLUMINATE ALL LEDS ON SMOKE CONTROL PANEL	ACTIVATE SMOKE CONTROL PANEL TROUBLE HORN	SII FNCE TROUBLE HORN
	S S S S S S S S S S S S S S S S S S S	1	ACTIVATION SIGNAL FROM FACU	A		•	•		'	•		·			_	- 141			1	_ <del>_</del>	
	FIR	2	ACTIVATION SIGNAL FROM FACU  DUCT MOUNTED SMOKE DETECTOR - STAIR PRESSURIZATION FAN	•		•	•				•							•			
		3	KEY SWITCH OVERRIDE ENGAGED		•	•		•													
		4	SCP HOA CONTROL SET TO AUTO											•							
	SWITCH / KEY INTERFACE	5	SCP HOA CONTROL SET TO ON			•						•									
	SWITC	6	SCP HOA CONTROL SET TO OFF			•							•								
ည		7	LAMP TEST BUTTON PUSHED			•													•		
SYSTEM INPUT		8	HORN SILENCE BUTTON PUSHED			•															•
		9	STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER "OPEN" STATUS NOT ACHIEVED WITHIN 75 SECONDS OF INITIATION SIGNAL		•	•		•									•			]	
		10	SMOKE PRESSURIZATION FAN "ON" STATUS NOT ACHIEVED WITHIN 60 SECONDS OF INITIATION SIGNAL		•	•		•									•			•	
		11	FAN FLOW PROVING CURRENT SENSOR ACTIVATED													•				]	
	ATROL S.NT	12	FAN FLOW PROVING CURRENT SENSOR DEACTIVATED												•						
	SMOKE CONTROL EQUIPMENT STATUS	13	STAIR PRESSURIZATION FAN POWER FAILURE / LOCAL FAN DISCONNECT IN OFF POSI	TION	•	•		•									•			•	
	SMOF	14	STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER END SWITCH IN OPEN POSITION													•				]	
		15	STAIR PRESSURIZATION FAN OUTSIDE AIR DAMPER END SWITCH IN CLOSED POSITION	1											•						
		16	NOT USED																		

# OCCUPANT SIGNALING SEQUENCE OF OPERATIONS:

- 1. PARTIAL EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATION:
- A. ACTUATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGHOUT BUILDING AREA IN ALARM (TOWERS AB OR TOWER C); REPEAT ALERT TONE AND
- B. AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTUATE AUDIBLE (TEMPORAL 3) AND VISUAL EVACUATION SIGNALS ON FLOOR OF INCIDENT, FLOOR ABOVE, AND FLOOR BELOW. SIGNALS SHALL CONTINUE TO ACTUATE UNTIL SYSTEM IS RESET AT THE MAIN FIRE ALARM CONTROL
- UNIT IN FIRE COMMAND CENTER. 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. ACTUATE THE SEQUENCE OF OPERATION INDICATED IN 1.A ABOVE.
- 2. TOTAL BUILDING EVACUATION OCCUPANT SIGNALING SEQUENCE OF OPERATIONS:
- A. ACTUATE PRE-ALERT TONE AND GENERAL VOICE INSTRUCTIONS THROUGHT BUILDING ASSOCIATED MANUAL PULL STATION ACTIVATION (TOWERS AB OR TOWER C);
- REPEAT ALERT TONE AND GENERAL EVACUATION MESSAGE THREE TIMES. AFTER THREE ROUNDS OF PRE-ALERT TONE AND VOICE MESSAGE ACTUATE AUDIBLE (TEMPORAL 3) AND VISUAL EVACUATIONS SIGNALS THROUGHT ASSOCIATED BUILDING.
- SIGNALS SHALL CONTINUE TO ACTUATE UNTIL SYSTEM IS RESET AT THE MAIN FIRE ALÀRM 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. ACTUATE THE SEQUENCE OF OPERATION INDICATED IN 2.A ABOVE.

# 3. PRE-RECORDED MESSAGES; THE FOLLOWING VERBIAGE (OR SIMILAR) SHALL BE PROVIDED:

- A. GENERAL VOICE INSTRUCTIONS (PARTIAL EVACUATION): ATTENTION PLEASE, THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES THE REPORT OF AN EMERGENCY IN THIS BUILDING. IF YOUR FLOOR EVACUATION SIGNALS SOUND AFTER THIS MESSAGE, WALK TO THE NEAREST STAIRWAY AND LEAVE THE FLOOR. WHILE
- THE REPORT IS BEING VERIFIED, OCCUPANTS ON OTHER FLOORS SHOULD WAIT FURTHER INSTRUCTIONS. B. GENERAL VOICE INSTRUCTION (TOTAL EVACUATION): ATTENTION PLEASE, THE SIGNAL TONE YOU HAVE JUST HEARD INDICATES THE REPORT OF AN EMERGENCY IN THIS BUILDING WALK TO THE NEAREST STAIRWAY AND LEAVE THE FLOOR AND EXIT THE BUILDING.
- EVACUATION ALL CLEAR: ATTENTION PLEASE, THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL
- D. TEST: ATTENTION PLEASE, THE FIRE ALARM SYSTEM WILL BE INSPECTED AND TESTED TODAY BY THE FIRE ALARM VENDOR. PLEASE DISREGARD ALL
- AUDIBLE AND VISUAL SIGNALS YOU MAY HEAR OR SEE UNTIL FURTHER NOTICE. E. TEST ALL CLEAR: ATTENTION PLEASE, THE FIRE ALARM TESTING HAS BEEN COMPLETED FOR THE DAY.
- 4. ... WAV FILES UTILIZED FOR PRE-ALERT AND TEMPORAL 3 SIGNALS SHALL BE A SQUARE WAVE OR PROVIDE EQUIVALENT AWAKENING ABILITY WITH A FUNDAMENTAL FREQUENCY OF 520HX +/- 10 PERCENT IN ACCORDANCE WITH NFPA 72 SECTION 18.4.5.3.
- 5. LEVEL P1 AND LEVEL:11 OF TOWER C TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.
- 6. LEVEL P1 AND LEVEL 1 OF TOWER B TO BE TREATED AS A SINGLE EVACUATION SIGNALING ZONE.

- 1. THE FOLLOWING ESTABLISHES THE PRIMARY / ALTERNATE RECALL FLOORS PER "BUILDING"
- A. BUILDING A PRIMARY: LEVEL 1; ALTERNATE: LEVEL P2 B. BUILDING B - PRIMARY: LEVEL 1; ALTERNATE: LEVEL P1 C. BUILDING C - PRIMARY: LEVEL P1; ALTERNATE: LEVEL 1

### **BUILDING AHU NOTES**

- 1. ALL BUILDING AHUS SHALL BE SUPERVISED FOR AIRFLOW STATUS; IF BUILDING AHU ARE SHUTDOWN FROM FIRE ALARM SYSTEM OR AREA OFF UPON A SIGNAL FROM BAS. THE ASSOCIATED FIRE/SMOKE DAMPERS SHALL BE CLOSED. UPON RECEIPT OF FAN AIRFLOW ACTIVATION OR FIRE ALARM RESET THE DAMPERS SHALL BE COMMANDED OPEN.
- 2. IN THE EVENT OF AN ALARM IN TOWERS AB OR TOWER C, ALL AHUS IN THE ASSOCAITED AREA SHALL SHUTDOWN.

STAIRWELL PRESSURIZATION SEQUENCE OF OPERATION

FOR EACH ALARM CONDITION NOTED IN THE FIRE ALARM INPUT/OUTPUT MATRIX AS HAVING A STAIRWELL PRESSURIZATION INITIATION FUNCTION, THE FIRE ALARM SYSTEM SHALL INITIATE THE FOLLOWING SEQUENCE OF OPERATION WITHIN 10 SECONDS OF ALARM INITIATION:

- 1. OUTSIDE AIR DAMPERS AT FANS OPEN OF BUILDING AREA IN ALARM (TOWERS AB OR TOWER C).
- A. NORMAL OPERATION: "OPEN" END SWITCH IS MADE WITHIN 75 SECONDS OF OPEN SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM; GREEN "ON" INDICATOR LIGHT ASSOCIATED WITH THE DAMPER SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL. B. FAULT: IF DAMPER "OPEN" END SWITCH DOES NOT MAKE WITHIN 75 SECONDS OF SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM THE YELLOW
- INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL, THE FIRE ALARM SYSTEM LCD SHALL DISPLAY THE CHANGE IN STATUS, THE LOCAL AUDIBLE/VISUAL INDICATORS ON THE FIRE ALARM CONTROL UNIT SHALL ACTUATE AND A SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE SUPERVISING STATION.
- 2. ONCE OUTSIDE AIR DAMPERS AT FANS MAKE THE ASSOCIATED FAN STARTS:
- A. NORMAL OPERATION: FAN FLOWING PROVING DEVICE IS ACTUATED WITHIN 60 SECONDS OF OPEN SIGNAL TRANSMISSION FROM THE FIRE ALARM SYSTEM; GREEN "ON" INDICATOR LIGHT ASSOCIATED WITH THE FAN SHALL BE ILLUMINATED ON THE FIRE FIGHTER'S SMOKE CONTROL PANEL. B. FAULT: IF FAN FLOWING PROVIDING DEVICE DOES NOT ACTUATE 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 FIGHTER'S SMOKE CONTROL PANEL, THE FIRE ALARM SYSTEM LCD SHALL DISPLAY THE CHANGE IN STATUS, THE LOCAL AUDIBLE/VISUAL INDICATORS ON THE FIRE ALARM CONTROL UNIT SHALL ACTUATE
- AND A SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE SUPERVISING STATION. 3. THE FANS AND DAMPERS SHALL STAY ON AND OPEN UNTIL MANUALLY RESET AT THE FIRE FIGHTER'S SMOKE CONTROL PANEL.

# SMOKE CONTROL AUTOMATIC WEEKLY SELF-TEST

1. WEEKLY SELF-TEST TO BE BYPASSED IN ACCORDANCE WITH EXCEPTION TO 2018 UTAH BUILDING CODE SECTION 909.12.1. PRESENCE OF POWER DOWNSTREAM OF ALL DISCONNECTS IS CONSTANTLY MONITORED BY THE FIRE ALARM SYSTEM AND TESTING OF ALL COMPONENTS BYPASSED FROM THE PRE-PROGRAMMED WEEKLY SELF-TEST WILL BE TESTED BY OWNER IN ACCORDANCE WITH SECTION 909.20.6 OF THE INTERNATIONAL FIRE CODE.

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\_\_\_\_

checked by Checker \_\_\_\_\_ job no. 20052 date 05/17/2024

IFC Set 2 of 3 05/17/2024

SEQUENCES OF OPERATION

FIRE ALARM