

**SEQUENCE OF OPERATION**

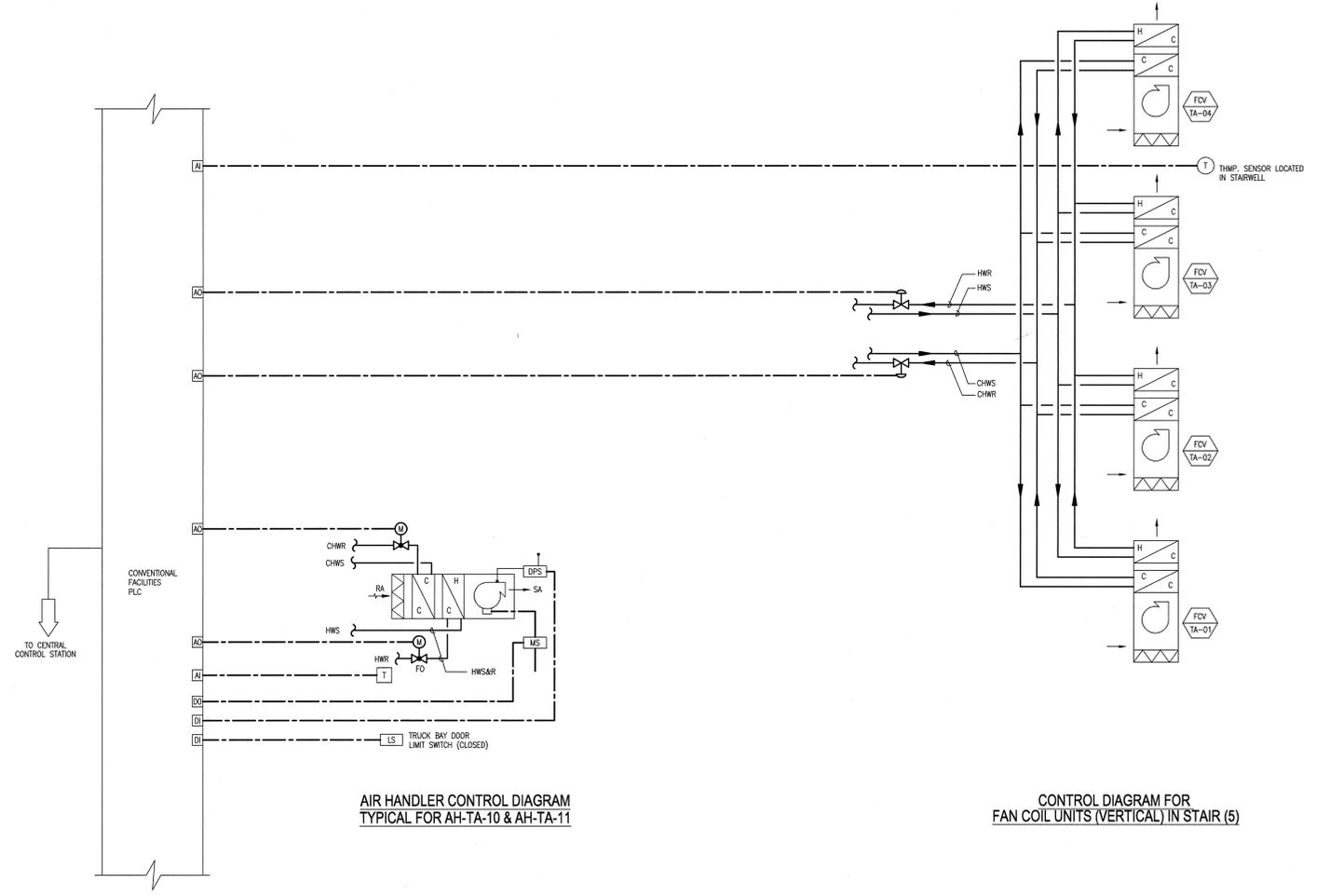
- GENERAL:**  
 THE AIR HANDLING UNIT SHALL BE ENERGIZED THROUGH THE CONTROL SYSTEM WHEN THE TRUCK BAY DOOR IS OPENED, AS REPORTED BY THE LIMIT SWITCH. A DIFFERENTIAL PRESSURE SWITCH SHALL REPORT FAN OPERATION STATUS. SHOULD THE FAN FAIL TO START OR FAIL DURING OPERATION, AN ALARM CONDITION SHALL BE INDICATED AT THE CENTRAL CONTROL.
- TEMPERATURE CONTROL:**  
 A SPACE TEMPERATURE SENSOR SHALL PROVIDE INPUT TO THE CONTROL SYSTEM. THE CONTROL SYSTEM SHALL MODULATE THE HEATING WATER AND CHILLED WATER CONTROL VALVES AS REQUIRED TO MAINTAIN THE DESIRED SPACE TEMPERATURE.

**SEQUENCE OF OPERATION FOR FAN COIL UNITS IN STAINWELL**

THE FAN SHALL RUN CONTINUOUSLY. THE THERMOSTAT SHALL PROVIDE TEMPERATURE INPUT TO THE CONVENTIONAL FACILITIES FLC. THE CHW & HWR SHALL BE MODULATED TO MAINTAIN TEMPERATURE. BOTH VALVES SHALL NEVER BE OPEN AT THE SAME TIME.

**CONTROL POINT LIST - TYPICAL TARGET BUILDING BASEMENT AIR HANDLER AH-TA-10 AND AH-TA-11**

BUILDING TARGET	OUTPUT FROM DDC		INPUT TO DDC		ALARMS		SOFTWARE		APPLICATIONS
	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG			
POINT DESCRIPTION									
GRAPHIC DISPLAY/WINDOWS BASED SOFTWARE									
CONTROL RELAY									
HANDS/OFF/AUTO									
OPEN/CLOSE									
CONTROL POINT ADJUSTMENT									
PROPORTIONAL CONTROL									
CONTACT CLOSURE									
FAULT									
DIFFERENTIAL PIPES SWITCH									
PRESSURE SWITCH									
AUXILIARY CONTACT									
GENERAL ALARM									
TEMPERATURE (°)									
% RELATIVE HUMIDITY									
PSIS, PSIA, PSD									
POSITION SENSOR									
FLOW									
CONTACT CLOSURE/FILTER									
CONTACT CLOSURE/EQUIPMENT FAILURE									
HIGH LIMIT									
LOW LIMIT									
RUN TIME									
DUTY CYCLING									
START/STOP									
ECONOMIZER OFF/AUTO									
REHEAT COIL RESET									
LEAD/LAG									
CHILLED WATER RESET									
FAILURE MODE									
AIR HANDLER AH-TA-10 & AH-TA-11 (TYP. OF 2)	X								
- COOLING COIL CONTROL VALVE									
- HEATING COIL CONTROL VALVE									
- SPACE TEMPERATURE SENSOR									
- AIR HANDLER START/STOP	X								X
- AIR HANDLER STATUS									
- LIMIT SWITCH (TRUCK BAY DOOR CLOSED)									X
FAN COIL UNITS-FCV-TA-01 TO FCV-TA-04									
- SPACE THERMOSTAT									
- HEATING CONTROL VALVE		X							
- COOLING CONTROL VALVE		X							



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NUMBER OF SECTION OR DETAIL  
 DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN  
**SECTION AND DETAIL KEY**

THIS DOCUMENT CONTROLLED BY  
 CHANGE CONTROL SYSTEM  
 ENGINEERING PROCEDURE SNS-ENG-001

REV	DATE	DESCRIPTION	ISSUED FOR REFERENCE - 11/13/01	MMK	BJU	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
A																							

REV	DATE	DESCRIPTION

108030700-H8E-8700-A115

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**UT-BATTELLE**  
 managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725

PROJECT NAME:  
**SPALLATION NEUTRON SOURCE**

TARGET BUILDING  
**TRUCK BAY CONTROLS**

1	48	49	50	PLANT	BLDG	FL	SH	OF	TYPE	CLASS
3	H	X	X	8	8700		1	1	D	U
5.1	5.2	5.3	WBS							
NC	NA		1.8.3.7						H8.40.08	REV