



SEQUENCE OF OPERATIONS

H. W. S. Pump P-2 - H. W. S. pump P-2 is controlled by a three position switch. In the "on" position the pump runs continuously. In the "off" position the pump is de-energized. In the "auto" position the pump is energized by P.S. #2, 3 on a call for heat by the room thermostats. T-1 T-2 provided winter is indexed at the summer-winter switch as proven by PE-1.

H. W. Recirculatory Pump - The H. W. recirculatory pump P-3 is energized when the return temperature falls below 140°F.

C. H. S. Pump - The C. H. S. pump is energized by a start-stop P.S. mounted on the control panel. A pilot light indicates pump operation.

Chiller External Interlock - The chiller will not operate unless water flow is indicated by the flow switch and the system is indexed to summer operation (PE-4 makes).

C. H. R. Changeover - Remote bulb sensor H-1 located in the C. H. R. line will not allow EP-2 to cause valve V-7 to divert water through the chiller until the water temperature has fallen to 90°F after changeover from winter to summer operation.

A. H. U. Interlock - An on-off switch indexes the A. H. U. operation. In the on position the A. H. U. fan runs continuously unless the firestat detects a coil discharge temperature below 40°F. EP-1 opens outside air dampers on fan start-up.

Exhaust Fans # 4, 5, 6 - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high.

Exhaust Fans # 1, 2 - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high.

Exhaust Fan # 3 - On a rise in room temperature, the room thermostat energizes the exhaust fan. A firestat located in the exhaust duct will de-energize the fan if the exhaust temperature is too high. A high-low speed selector switch allows indexing of fan speed.

Laundry Unit Heater Control - On a fall in room temperature the room thermostat energizes the unit heat fans provided supply water temperature is above the aquastat setting.

Shop Unit Heater Control - On a fall in room temperature the room thermostat energizes the unit heat fans provided supply water temperature is above the aquastat setting.

Laundry Compressor Controls - A P. S. switch maintains a constant tank pressure of 85 psig. The cooling water solenoid valve opens when the compressor is running and closes when it is de-energized.

Fan Coil Interlock - Upon fan start-up E. P. -3 is energized allowing the room thermostat to modulate the supply valve to the unit coil. Upon fan shut-down, E. P. -3 is de-energized forcing all supply water to bypass the unit coil.

LEGEND

LOW VOLTAGE
N.O. - NORMALLY OPEN
N.C. - NORMALLY CLOSED
D.A. - DIRECT ACTING
R.A. - REVERSE ACTING
T.R. - THROTTLING RANGE
P.B. - PROPORTIONAL BAND

ARCHITECT: U.S. GOVT.
ENGINEER: SNEEDEN INC.
CONTRACTOR: SNEEDEN INC.

① DEVICE MOUNTED IN HONEYWELL PANEL AT A.H.U.

② DEVICE MOUNTED IN HONEYWELL PANEL IN EXISTING MECHANICAL EQUIPMENT ROOM.

③ TERMINALS IN PANEL

ATLANTIC DIVISION
NATIONAL FACILITIES ENGINEERING COMMAND
ROSELAND, VIRGINIA 22611

APPROVED:

SUBJECT TO THE REQUIREMENTS OF SPEC. NO. 05-70-0994

APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATED CONFORMANCE WITH SPECIFICATION REQUIREMENTS ONLY - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OTHER PHYSICAL DIMENSIONS & WEIGHTS. COORDINATION OF TRADES, ETC. AS REQUIRED.

P. E. SEUFER
RADM, CEC, USN
GMAIL:NAVFACE@GMAIL.COM

19 AUG 1971

C		5173 SHARON FAMILY CHARLOTTE N.C.	
B		HADNOT CONFINEMENT FACILITY	
A		CAMP LEJUNE, N.C.	
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