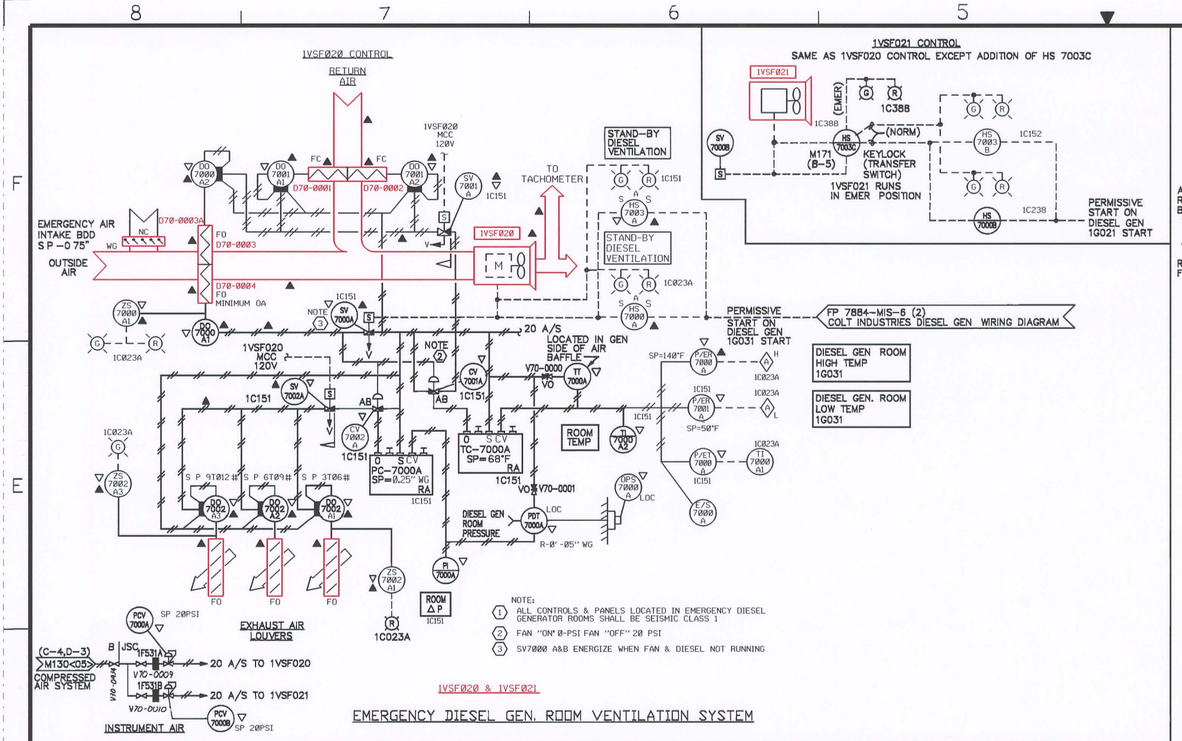
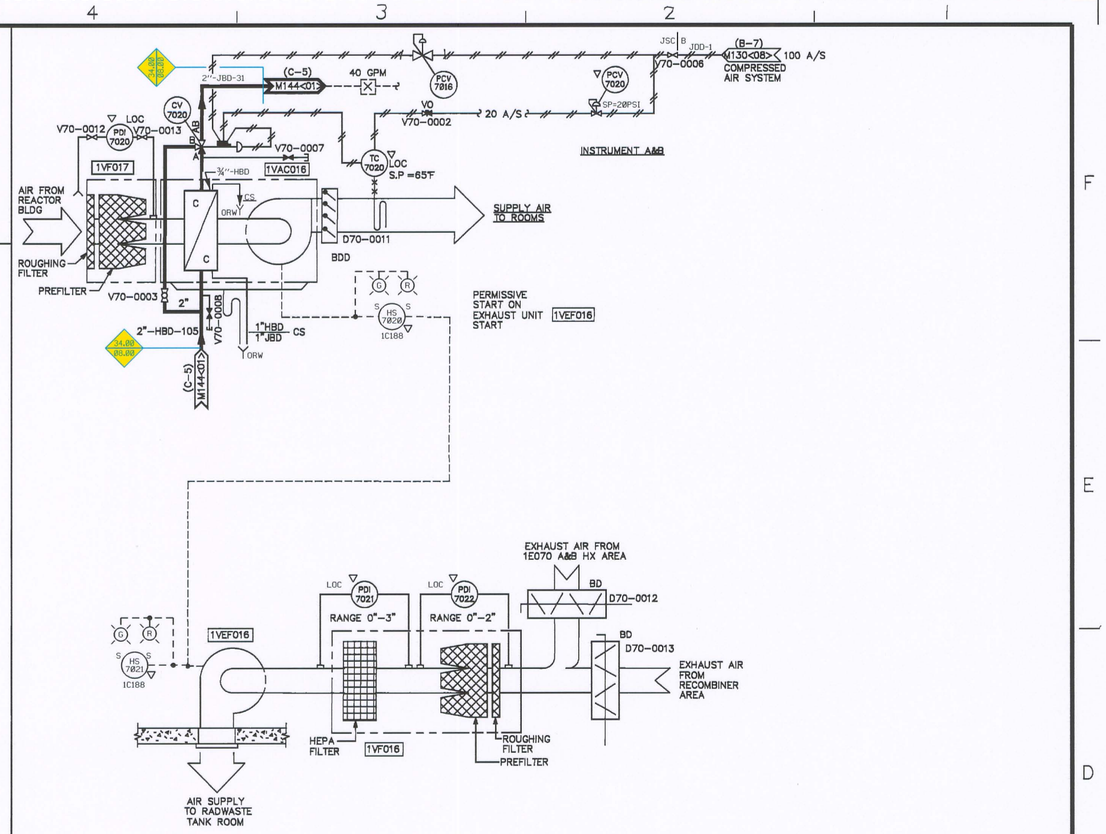
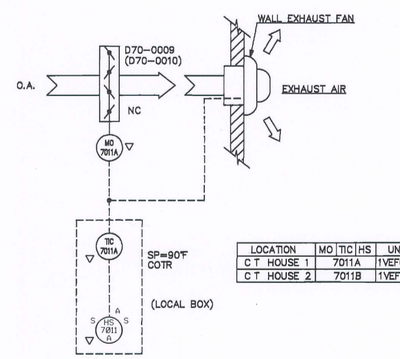


EMERGENCY DIESEL GEN. ROOM VENTILATION SYSTEM



RECOMBINER AREA SYSTEM
1VAC016 & 1VEF016

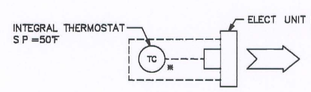
DETAIL 4



LOCATION	MO	TIC	HS	UNIT
C T HOUSE 1	7011A			1VEF056U
C T HOUSE 2	7011B			1VEF056V

TYPICAL VENTILATION CONTROL FOR THE COOLING TOWER CONTROL HOUSES NO.1 & NO. 2
1VEF056U & V

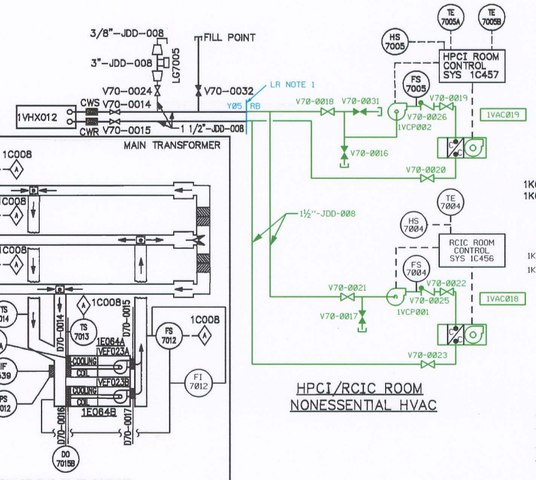
DETAIL 2



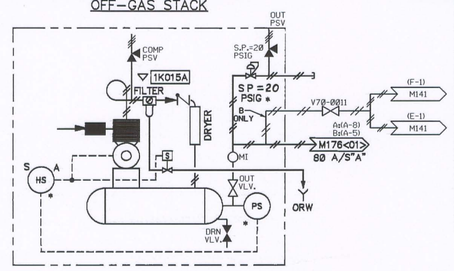
UNITS	LOCATION	UNITS
1VUH058U	C.T.A.VALVE HSE. NO.1	TC7006A
1VUH058V	C.T.A.VALVE HSE. NO.1	TC7006B
1VUH058W	C.T.A.CONT. BLDG. NO1	
1VUH058X	C.T.B.CONT. BLDG. NO.2	
1VUH058Y	C.T.B.VALVE HSE. NO.2	TC7007A
1VUH058Z	C.T.B.VALVE HSE. NO.2	TC7007B

THE COOLING TOWER VALVE HOUSE NO.1 & NO.2 AND CONTROL BUILDING NO.1 & NO.2
1VUH058U,V,W,X,Y, & Z

DETAIL 3



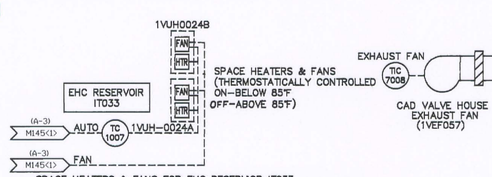
INSTRUMENT AIR SYSTEMS
OFF-GAS STACK

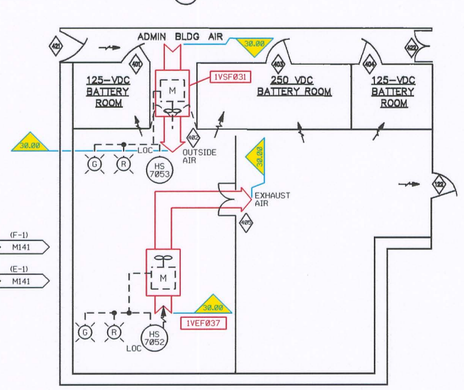


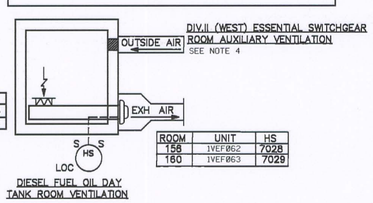
	SV	HS	PS	PCV	OIL FILTER	AIR FILTER	DRYER	CK VLV
1K015A	SV7054A	HS7054A	PS7054A	PCV7054A	IF543A	IF544A	1S1078A	V70-0033
1K015B	SV7054B	HS7054B	PS7054B	PCV7054B	IF543B	IF544B	1S1078B	V70-0034

NOTE: 1K015A & B HAVE BEEN DISCONNECTED FROM OFFGAS DAMPER CONTROLS.

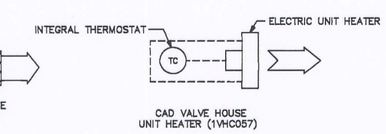
	DRAIN VALVE	OUT VALVE	MI	COMP PSV	OUT PSV
1K-015A	V70-0038	V70-0035	MI-7054A	PSV-7054A	PSV-7022A
1K-015B	V70-0037	V70-0036	MI-7054B	PSV-7054B	PSV-7022B







ROOM	UNIT	HS
156	1VEF062	7028
160	1VEF063	7029



NOTES

1. ▲=QA & SEISMIC CLASS I
2. ▽ = CONTROLS SUPPLIED BY HVAC INST CONTRACTOR
3. FOR SYMBOLS AND ABBREVIATIONS NOT ON THIS SHEET SEE BECH-M179 & E349
4. AUXILIARY VENTILATION AND COOLING FOR THE DIVISION II (WEST) ESSENTIAL SWITCHGEAR ROOM THIS SYSTEM WILL BE MANUALLY ACTIVATED UPON FAILURE OF CONTROL BLDG HVAC SYSTEM AIR SUPPLY FOR 1VSF031 IS FROM THE CORRIDOR CONNECTED TO THE ADMIN. BUILDING (DOOR 421). 1VSF031 SUPPLIES AIR TO SWITCHGEAR ROOM THROUGH OPEN DOOR 402. AIR IS EXHAUSTED FROM THE ROOM VIA 1VEF037, THROUGH DOOR 405, AND TO THE TURBINE BUILDING THROUGH DOOR 122.
5. FAN 1VEF037 AND ATTACHED DUCTWORK IS SEISMICALLY SUPPORTED DUE TO NONSEISMIC/SEISMIC CONCERNS.

LR NOTES:

1. THE HPCI/RCIC ROOM NON-ESSENTIAL HVAC 1VAC018 AND 1VAC019 ARE LOCATED IN THE REACTOR BUILDING WITH SAFETY RELATED EQUIPMENT (FSK-10709 AND FSK-10780). A PORTION OF THE SYSTEM IS PLACED IN THE OUTSIDE YARD (1VHX012-FSK-10710) WITH NO SAFETY RELATED EQUIPMENT.

LR LEGEND:

- COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
- COMPONENTS NOT SUBJECT TO AMR
- COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21

SYSTEM BOUNDARY INTERFACE
08.00 WELL WATER
10.03 PLANT VENTILATION
30.00 CB HVAC
34.00 REACTOR BUILDING HVAC

D-089

NO.	DATE	REVISION	DRFTR.	CHK'D.	ENGR.	LEAD
0	9/16/08	INITIAL RELEASE	KB	MF	TH	CLB

iE: Iowa Electric Light & Power Co. Cedar Rapids, Iowa
DUANE ARNOLD ENERGY CENTER
P. & I.D.
HEATING VENT & AIR CONDITIONER
MISC. CONTROL SYSTEMS
Scale NONE | Dwg No BECH-M170-LR | Rev 0

BASE P&ID REV 38