SUPERSEDED

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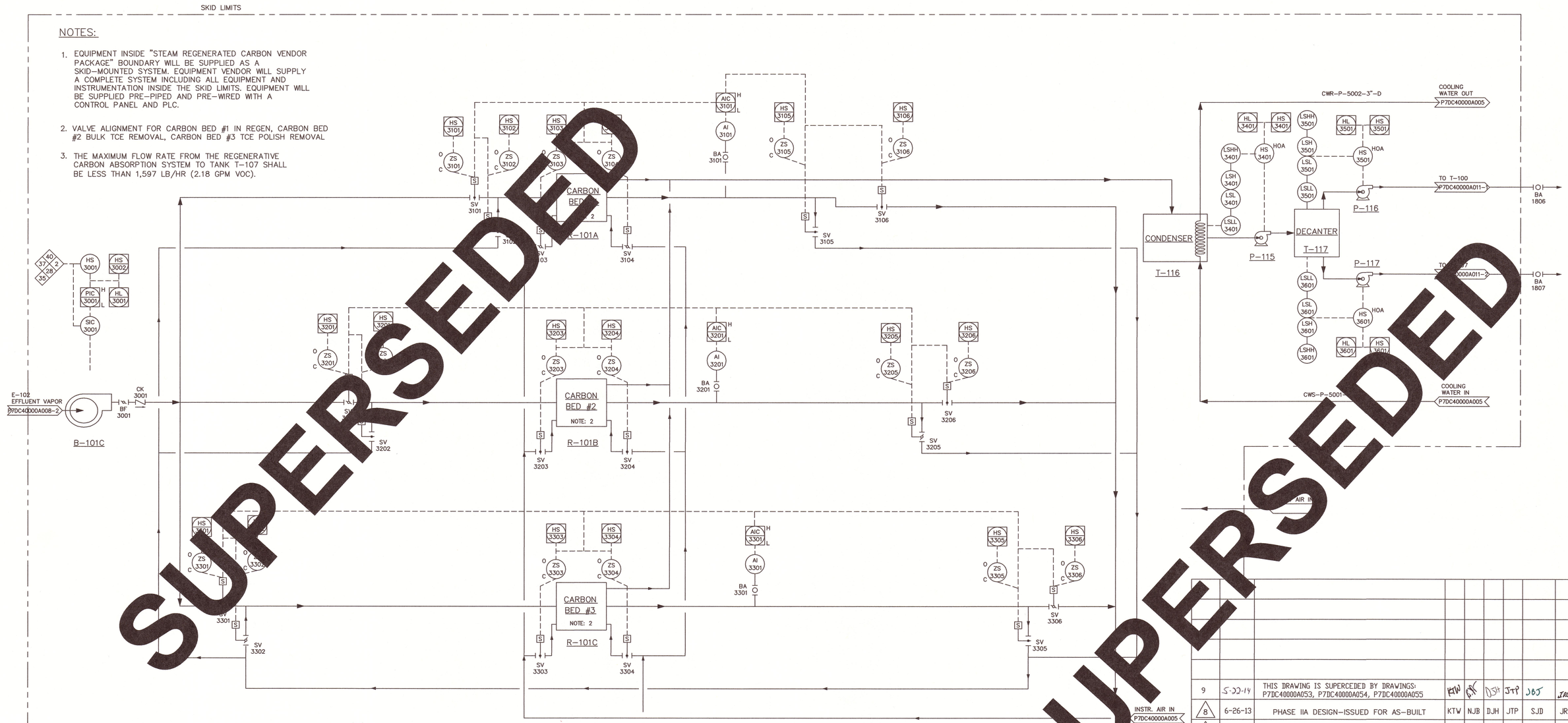
NOTES:

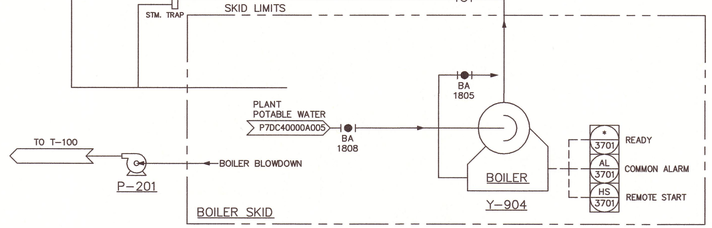
1. EQUIPMENT INSIDE "STEAM REGENERATED CARBON VENDOR PACKAGE" BOUNDARY WILL BE SUPPLIED AS A SKID-MOUNTED SYSTEM. EQUIPMENT VENDOR WILL SUPPLY A COMPLETE SYSTEM INCLUDING ALL EQUIPMENT AND INSTRUMENTATION INSIDE THE SKID LIMITS. EQUIPMENT WILL BE SUPPLIED PRE-PIPED AND PRE-WIRED WITH A CONTROL PANEL AND PLC.
2. VALVE ALIGNMENT FOR CARBON BED #1 IN REGEN, CARBON BED #2 BULK TCE REMOVAL, CARBON BED #3 TCE POLISH REMOVAL
3. THE MAXIMUM FLOW RATE FROM THE REGENERATIVE CARBON ABSORPTION SYSTEM TO TANK T-107 SHALL BE LESS THAN 1,597 LB/HR (2.18 GPM VOC).



CARBON REGENERATION SKID

INTERLOCKS:

- 2 HIGH-HIGH LEVEL IN EITHER LIQUID/VAPOR SEPARATOR (T-101 OR T-102) WILL SHUT DOWN VACUUM BLOWERS (B-101A,B,C) AND ACTIVATE ALARM VIA CONTROL PLC
- 28 HIGH-HIGH TCE/VOC CONCENTRATION IN THE VAPOR AT THE STACK SHUTS DOWN THE VAPOR (CLOSES SV-9028) AND GROUNDWATER SYSTEMS (STOPS VACUUM BLOWERS B-101A,B,C)
- 34 HIGH-HIGH PRESSURE SHUTS DOWN VACUUM BLOWERS
- 35 VACUUM BLOWERS WILL BE SHUT DOWN IF DIFFERENTAL PRESSURE (PIT-1129 & PIT-1204) EXCEEDS 10 PSIG
- 36 HIGH-HIGH TEMPERATURE AT E-102 OUTLET SHUTS DOWN THE VACUUM BLOWERS (B-101A,B,C)
- 37 HIGH-HIGH LEVEL IN T-108 SHUTS DOWN P-111, P-112, P-113, P-141 AND VACUUM BLOWERS B-101A,B,C
- 40 IF B-101A,B,C ARE OFF OR IF FIT 224 IS LESS THAN OR EQUAL TO 100 CFM FOR 30 SECONDS P-106 AND P-103A BOTH SHUT DOWN.



B-101C	VACUUM BLOWER 20 HP	
R-101A	CARBON REGENERATION BED #1	
R-101B	CARBON REGENERATION BED #2	
R-101C	CARBON REGENERATION BED #3	
Y-904	ELECTRIC BOILER	
P-201	BOILER BLOWDOWN PUMP	
P-115	T-116 CONDENSATE PUMP ½ HP	
P-116	T-117 WATER CONDENSATE PUMP ½ HP	
P-117	T-117 TCE CONDENSATE PUMP ½ HP	
T-116	CONDENSER TANK	
T-117	DECANTER TANK	

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/ NUCL SFTY	FAC MGR	E&TS MGR
9	5-22-14	THIS DRAWING IS SUPERCEDED BY DRAWINGS: P7DC40000A053, P7DC40000A054, P7DC40000A055	KTW	BK	DJH	JTP	SJD	JRW	PAC
8	6-26-13	PHASE IIA DESIGN-ISSUED FOR AS-BUILT	KTW	NJB	DJH	JTP	SJD	JRW	PAC
7	10/26/12	PHASE IIA DESIGN-CERTIFIED FOR CONSTRUCTION	NJB	TJH	TJM	BCK	SJD	JRW	RES

DRAWING REVISIONS

U.S. DEPARTMENT OF ENERGY
PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
PADUCAH GASEOUS DIFFUSION PLANT

LPE

LATA Environmental Services of Kentucky, LLC managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC30-10CC40020 Paducah, Kentucky

DOE CONTRACT NO. DE-AC30-10CC40020

PROJECT NAME:
C-400 REMEDIATION DESIGN

TITLE:
VAPOR TREATMENT SYSTEMS
STEAM REGENERATED CARBON ADSORPTION SYSTEM
PROCESS PIPING & INSTRUMENTATION DIAGRAM

EDCS CAD FILENAME	BUILDING	PLANT	CLASS
P7DC40000A009 REV9.DWG	C-400	PDGP	U

DATE:	SCALE:	DRAWING NUMBER	REV
PROFESSIONAL SEAL	N/A	P7DC40000A009	9

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