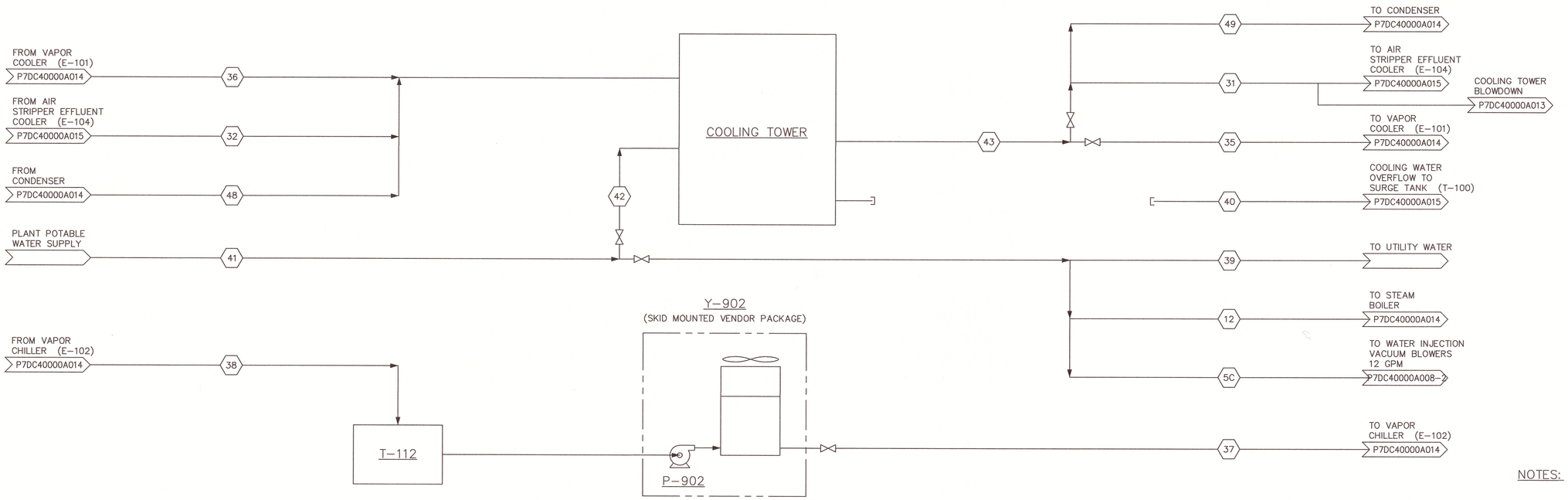
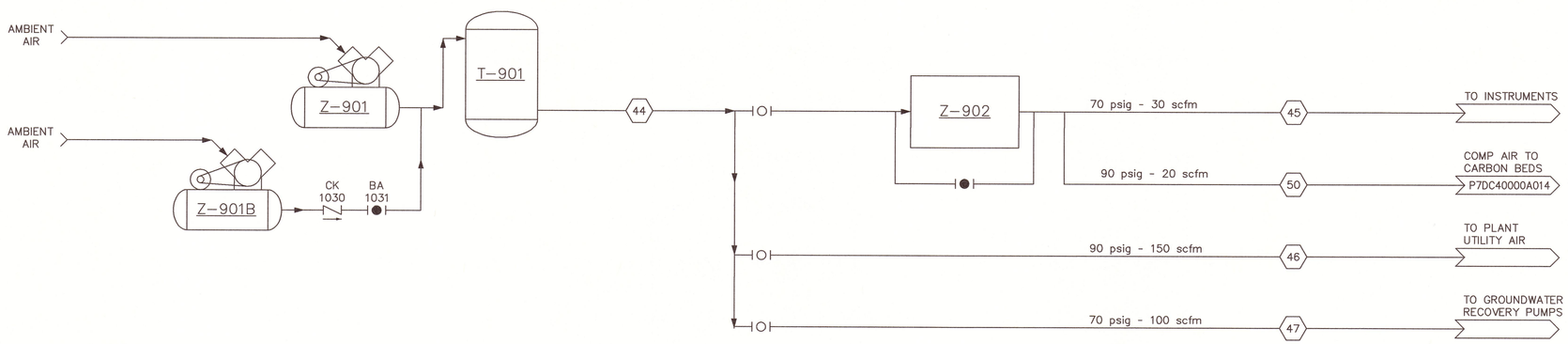


NOTES:



P-902	CHILLER PUMP
T-901	AIR COMPRESSOR RECEIVER TANK
T-112	GLYCOL TANK
Y-902	GLYCOL CHILLER (AIR COOLED)
Z-901	UTILITY AIR COMPRESSOR
Z-902	DEHUMIDIFIER

Stream No.	5c	12	31	32	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Stream Description	Seal Water Blower	Water to Steam Boiler	Cooling Water to E-104	E-104 Cooling Water Return	Cooling Water to E-101	E-101 Cooling Water Return	Glycol Solution to E-102	E-102 Glycol Return	Utility Water	Cooling Tower Overflow	Total Makeup Water	Cooling Tower Makeup	Water from Cooling Tower	Air from Air Compressor	Instrument Air	Utility Air	air to groundwater pumps	Cooling Water Return from Condenser	Cooling Water to Condenser	Drying & Cooling Air to Carbon Beds
Dry Air (lbs/hour)	-	-	-	-	-	-	-	-	-	-	-	-	-	1,260	135	675	450	-	-	-
H2O (lbs/hour)	5,998	1,200	128,639	128,639	389,407	389,407	-	60,942	-	-	17,302	10,104	579,872	-	-	-	-	61,826	61,826	-
TCE (lbs/hour)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Output (lb/hr)	5,998	1,200	128,639	128,639	389,407	389,407	-	60,942	-	-	17,302	10,104	579,872	1,260	135	675	450	61,826	61,826	-
gas flow (scfmw)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.0	150	100	-	-	26.0
Liquid flow (GPM)	12.0	2.4	258	258	781	781	187	122	-	-	34.62	20.22	1,163	-	-	-	-	124	124	-
Total VOCs (ppmv)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (oF)	85	80	83	100	83	100	45.0	55	-	-	70	70	83	80	70	80	80	113	83	50
Pressure (psia)	40	70	50	15	50	15	50	15	-	-	30	30	30	90	85	105	85	50	50	105

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/ NUCL SFTY	FAC MGR	E&TS MGR
7	5-22-14	ISSUED FOR AS-BUILT, PHASE 2A	KTW	NJB	DJH	JTP	SJD	JRW	PAC
6	6-26-13	PHASE IIA DESIGN-ISSUED FOR AS-BUILT	KTW	NJB	DJH	JTP	SJD	JRW	PAC
5	6/7/2013	ADDED FLOW TABLE FOR MASS BALANCE CALCS.	TCW	TJH	TJM	TS	---	---	---
4	10/26/12	PHASE IIA DESIGN-CERTIFIED FOR CONSTRUCTION	NJB	TJH	TJM	BCK	SJD	JRW	PAC

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:
SOIL VAPOR AND GROUNDWATER TREATMENT SYSTEM UTILITIES PROCESS FLOW DIAGRAM

EDCS CAD FILENAME	BUILDING	PLANT	CLASS
P7DC40000A016 REV7.DWG	C-400	PDGP	U

DATE:	SCALE:	DRAWING NUMBER	REV
PROFESSIONAL SEAL	N/A	P7DC40000A016	7