

APPENDIX VI, PFDs & P&IDs

Rev. 0 February 2007

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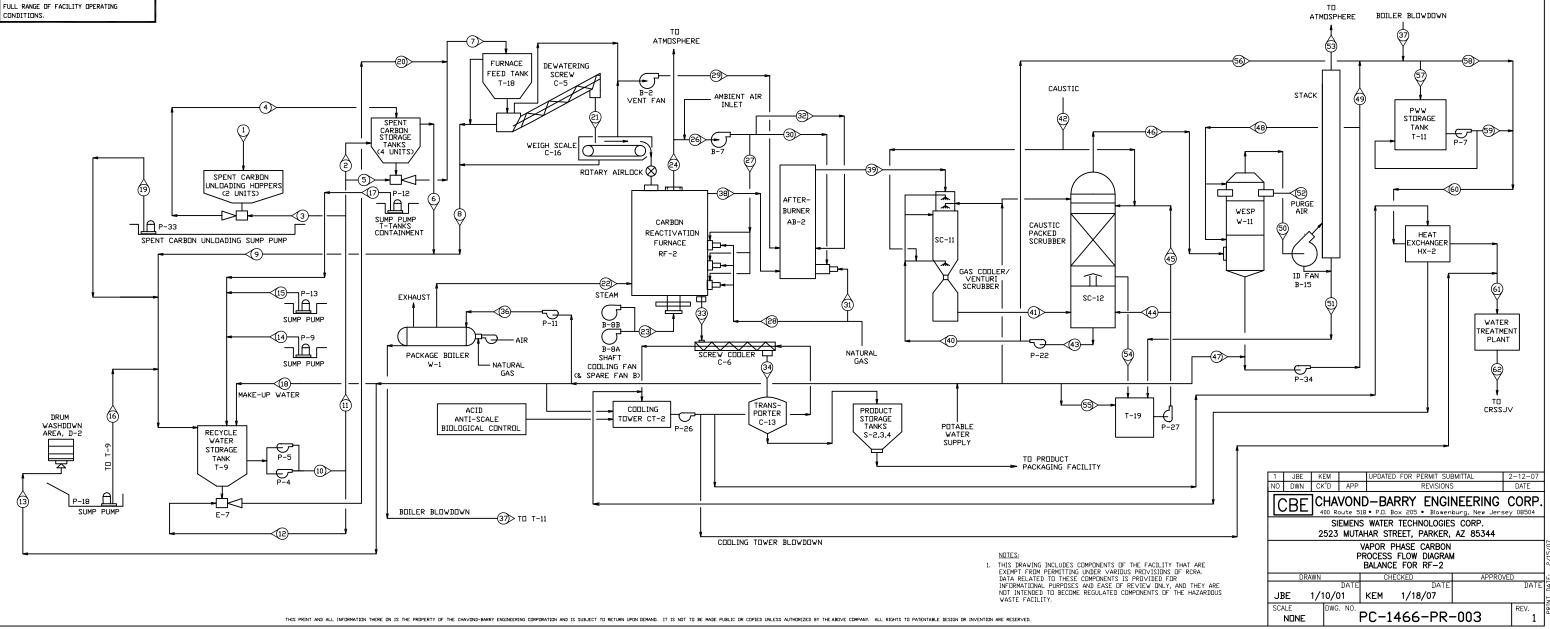
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SIEMENS WATER TECH	HNOLDI	SIES CORF	. Vi	APOR PHA	e carbon	- PROCE	SS FLOW I	DIAGRAM PR	-003 - BA	LANCE FOR	R RF-2																																																				
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NON-CHLORINATED CARBON		AKBUN	AILK	VAILK		VAILK W	AIEK SE	JRRY WA	EK VAIL		(VAIL)	K VAI	EK VAI	EK V	AIER VA	IEK VA	EK V	AILK	VAILK	AILK	SLUKKY	CARBUN		AIK	AIR	AIR	AI	K U	AS	AIR	AIR	UAS	AIK U	AKBUN U	AKBUN W	AILK D	UWN EXP	AUSIEXH	AUSI W	AIEK EXH	UST SUZNA	AUH VA	IER V	AIER WA	IEK EX	KHAUST	WAILK	WAILK	UKAIN	INLET	UKAIN	N AI	< EXH	NUST DR	AIN V	ILK VA	AILK V	AILK V	AIER VA	IEK VA	EK VAI		221A
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DXYGEN																																						0	469		469					469				153	1		1	531									
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GPM		0.15	0.18	26.29	26.44	37.54	20.93	3.23 4	0.91 61.3	33 64.0	01 64.	.01 0).00 C	0.00	0.00	0.00	0.00	0.00	2.18	0.00	0.00	2.33														2.49	0.10		11	15.00		13	8.82	33.85 23	30.00		0.74	0.39	0.88					23	30.00	3.85 2	23.82	24.8	0.00 2	24.8 2	4.8 24	1.89 2	1.89
SCFM																								2500	2500	0 19	81	817	33	12	823	58	341					1752	2977		086					4739				5714	1	1	200 5	5714									
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PRESSURE - PSIG TEMPERATURE - *F		ATM.	70	70	24	70 G	RAVITY	24 GR/ IBIENT AMI	VITY GRAV	111 8	30 8	80	80	20					20 AMBIENT			GRAVITY	15	0.36 AMBIEN	ATI 400	M.	1	1	1 IBIENT A	1	1	1 AMBIENT	1	ATM.	ATM. 250 A	20	15	ATM. 900	ATM.	20 -	.16 186 AMBI	50 GR	AVITY	20	20	-1.34	20	20	20	-1.52	2		ATM. IENT	ATM. GR	AVITY 171 A	20 IBIENT	20	20		40	40 GRA	VITY GR	VITY
IEMPERATURE - "F	1	MBIENT	MBIENT	AMBIENT	AMBIENT A	AMBIENI A	MBIENT	IBIENT AM	IENI AMBI	ENT AMBIE	NI AMBIE	IENT AMB	SIENT AME	SIENI			_		AMBIENT	_		AMBIENT	250	AMBIEN	400	0 3	50	350 AF	IBIENI A	MBIENT	350 A	AMBIENT	350	1600	250 A	MBIENT	250	900	1850	1/1	186 AMBI	LENI	1/1	1/1	1/1	184	AMBIENT	112	112	1/4	1	AME	IENT	193	1/1 A	BIENI	1/1	1/1		1/1	1/1	120	118
ph DISSOLVED SOLIDS - MG/L									_	_	_								7							-										/	10.5			050	5000	14	/	/	/		/	/	/		_	_	_	_	606	/	/	/		830	830	/	_
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DRGANICS		216			216			216					-	-		-	-				Ó	216				-												20	0		0					0				0	5			0									
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CARBON DIOXIDE																																						827	1323	1	323					1323				1323	3		1	323									
NITROGEN																																						2846	6875	e	875					6875				1039			10	390									
DXYGEN																																						0	464		464					464				1526	5		1	526									
SULFUR DIDXIDE HYDROGEN CHLORIDE																																						3	3		3					0								0									
HYDROGEN CHLORIDE													-	_											L													8	8		8					0)	-		0									
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UPM		0.15	0.18	26.85	51.00	38.34	21.37 4	4.15 4	.78 63.	15 65.3	87 65.3	.37 0	J.UU C	1.00	0.00	0.00	0.00	0.00	5:55	0.00	U.00	2.38		0500	-		-	015		10	705		050			2.49	0.10	17/0	11	15.00	~	14	2.34	37.34 23	30.00	1710	0.74	0.39	0.88	5(0)	<u> </u>	<u> </u>		693	30.03	37.31 2	27.34	28.31	0.00 2	8.31 2	3.31 28	3.41 2	41
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PRESSURE - PSIG	_	ATM	70	70	24	70 0	DAVITY	24 (1)			20 0	00	00	20			-		20			GRAVITY	16	0.36			1	1	1	1		1	1	ATM.	ATM	20	16	4691 1: ATM.	3433 ATM	20 -	16	50 00		20	20	-1.24	20	20	20	-153		-	ATM.		AVITY	20	20	20		40	40 004		VITY
TEMPERATURE - *F	-	ATM.	/U	/U				24 GRA					OU AND	DIENT				-	AMBIENT			AMBIENT	250	0.36 AMBIEN	A 1	0 24	1	250 AM	I BIENT A	ADIENT	250 4	AMBIENT	250	ATM.	AIM. 250 A	MBIENT	10	000	1850	171	.16 186 AMBI	JU UK	171	171	171	-1.34	AMBIENT	112	112	-1.52		AM	ATM. IENT	102 UK		BIENT	171	171		171	40 GRA	120	110
NU CHILDREN I CALL		ingitudi i	INDIENI	MIDIENI	anpicial P	WIDILINI M	NDILINI M	IDILINI AMU	ation HMB1	LINI AMBIL	AMBIC	ILITI AMB	ALL HAL	ALM I					7			PROFESSI	200	nnBiLN	400	v <u> </u>	50	3JU HP	DIENI	I PILLA	3JU P	HIDIT VI	3,00	1000	C.J.U /	7	10.5	200	10.00	7	100 AMBI	14	7	7	7	104	Prinpic NI	112	112	+ 1/	'	HMI	1011	175	7 1/1	7	7	7		7	7	7	-10
DISSOLVED SOLIDS - MG/L	1								_	-							-		550						l	+	-									550	7961	_		2159	5000	100	2159	1581	1581		550	550	400		-		_	-	1748	550	2159	2081		2081	2081 1	550	-
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THE DATA PRESENTED ABOVE ARE OFFERED

TO DESCRIBE A TYPICAL OPERATING CONDITION AND ARE NOT INTENDED TO DEFINE THE

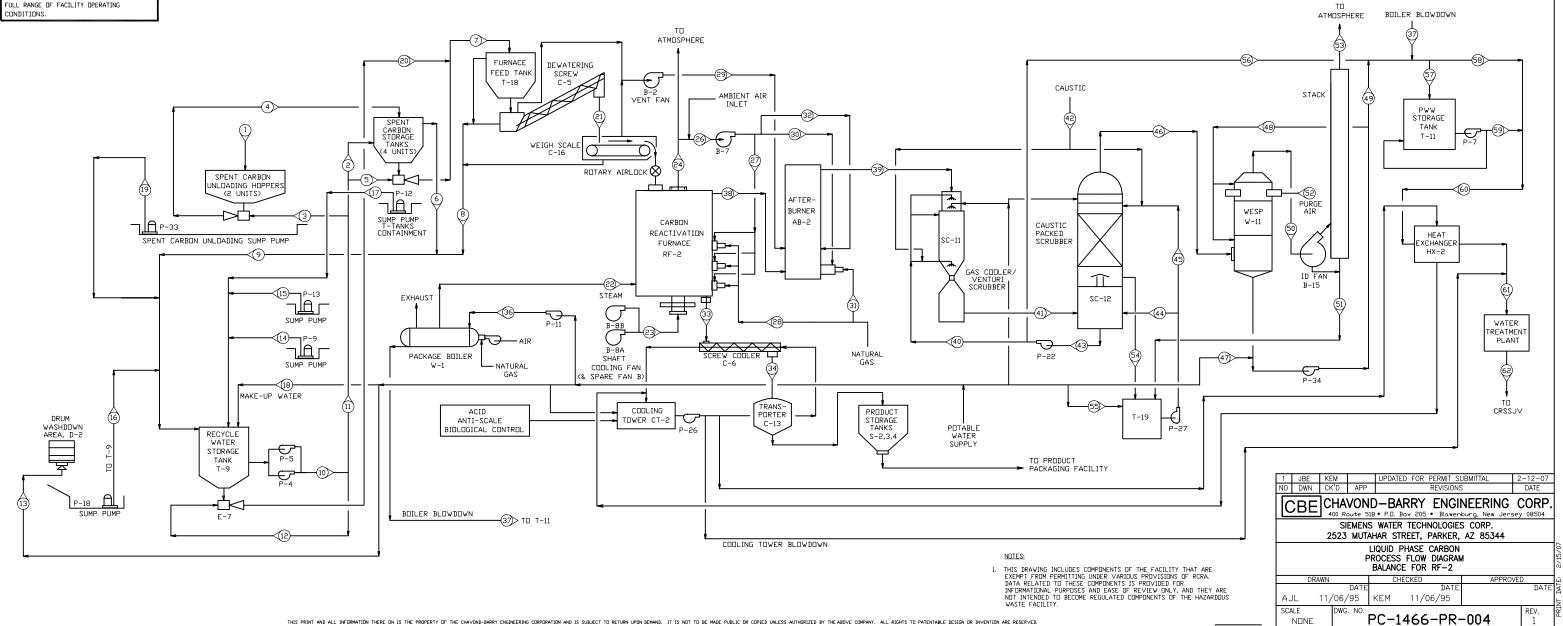
CONDITIONS.



SIEMENS WATER TECHN	DLOGIES CO	ORP.	LIQUID F	HASE CAP	BON - P	RDCESS F	LOV DIA	GRAM PR	-004 -	BALANCE F	DR RF-2																																																	
	1 1	2	1 3	4	5	6	7	8		9 10	1.	1 12	13	3 14	4 19	5 16	17	18	19	20	21	2		2 2	4	*	27	28	29	30	31	32	33 3	24 3	6 3	7 7	8 39		10 4	1 42	4	3	44	15	16	47	48	9	50	51	52	53	54	55	56	57 5	2 50	9 6	.0 6	1 62
LINE ND. MATERIAL	SPENT	RECYCLE	PECYCLE	CARBON	RECYCLE	RECYCL	CAPRI			YOLE RECY		YOLE RECYC				CLE PECY		E POTAT	IF RECY	IE CAPI		IT STI	AM COD			APN .	RIPNER N	ATUPAL	VENT			223308	FGEN PE	GEN POT			NACE AF	R PPN	ICESS VEN		TIC PPD	199 2231	199 22310	912 2231	URBER POT		223300	ESP IT	I FAN S	STACK	PURGE				2233009	0199 22310	223	0099 2230	199 2231	FSS WATER
	CARBON	RECYCLE	WATER	SLURRY	VATER	VATER	E CARBI	Y VAT	CLE REC ER VA	ATER VAT	ER VA	YCLE RECYC	ER VAT	ABLE RECY TER VAT	TER VAT	TER VAT	ER VATE	R VATE	R VATE	R SLUF	dn spei Ry care	ON 31		ING COO	IR	ARN :	BURNER N AIR	GAS	AIR	URNER N#	GAS	AIR C	ARBON CA	RBON VA	TER DI	DVN EX	NACE AL AUST EXHAI	UST VA	ATER EXH	AUST 50/2N	ADH VA	TER V	ATER V	ATER EXH	AUST V	ATER	ATER D	RAIN II	NLET	DRAIN	AIR	XHAUST	DRAIN	VATER	VATER N	ATER VA	TER VA	TER VA	TER V4	CESS WATER
NON-CHLORINATED CARBON																																																												_
AVERAGE FLOWS (LBS/HR) CARBON VATER																																																												
CARBON	1237			1237	17153	956	12	37 53 18/	690 2		147 2						_			_	0 1	37											1200	1200	1248		37	9		0 9844 0	0.15 6		17500 11	5092	0				0			0	115092							
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CARBON DIOXIDE NITROGEN						-	-		-			_	_			_	_			-	-	-			_	-								_			2686 7	7902		7902		_			7902	_			11417			11417								
DXYGEN	1			-				-				_	-	_		-	-		-	-					_	-								_	-		0	528		528	-	_			528	-			1590		-	1590					_			
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GPM	2.35	0.18	21.79	24.14	34.28	19.1	2 39.	47 37	.35 5	56.47 56	5.25 5	6.25 0.0	1.00 C	0.00 0	0.00 C	0 00.0	.00 0.	0. 0.	00 0.	00 0	00 2	.12													2.49	0.10		11			13	8.77	34.97 2	30.00		0.74	0.39	0.88					230.00	34.97	23.77	12402 24.79	-S 00.C	4.79 2	4.79 2	4.88 24.8
SCFM																								2500	2500	2248	767	61	12	1349	96	132					1648 3	3250		5542					5217				6192		1000	6192								
ACFM																									4135												4384 14	741		7462					7093				8420			7906								
PRESSURE - PSIG TEMPERATURE - *E	ATM.	20	70	24	70	GRAV1	TY	24 GRA	VITY GF	RAVITY ABIENT AME	80	80									GRA				ATM.	1	1	1	1	1	1	1	ATM.	ATM.	20	15	ATM.	ATN.	- 05	1.16	50 GR	AVITY	20	20 -	-1.34	20	20	20	-1.52		ATM.	ATM.	GRAVITY	20	20	20		40	40 GR	AVITY GRAVI
TEMPERATURE - 'F	AMBIENT	AMBIENT	T AMBIEN	AMBIEN	I AMBIEN	T AMBIE	NT AMBI	ENT AMB	IENT A	ABIENT AME	BIENT AM	BIENT	_			_	_	_	_	_	AMB	ENT	250 AM	BIENT	400	350	350	AMBIENT	AMBIENT	350 /	AMBIENT	350	1600	250 AM	BIENT	250	900 18	850	170	185 AMB	BIENT	170	170	170	183 A	MBIENT	112	112	174		AMBIENT	193	170	AMBIENT	170	170	_	170	170	120
DISSOLVED SOLIDS - MG/L						_	-	_	_		_		_			_	_	_	-	_	_	_													550	70(1		_	000	500	14	000	5/5	/		/		/					5(0	/	022	/		805	005	832
SUSPENDED SOLIDS - MG/L					-	-	-	-	-		-	_	_			_	_		-	_	-	_		-	_	-								_	10	7,01	_	_	705	500	0000	795	10	10		10	10	10					10	10	705	752	-	752	752	750
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CHLORINATED CARBON			1																																																									
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NITRUGEN DXYGEN				<u> </u>			_	_			_		_			_	_	_	_	_	_	_			_												2122 1	580		/381		_			/381				11096			11096								<u> </u>
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GPN	2.46	0.18	11423 22.83	25.29	35.91	20.0	2 41.	35 39	9.13 5	29599 29 59.15 58	3.92 5	8.92 0.0		0.00 0	0.00 0	0 100	1.00 0.	ni n	nă n		00 2	22				/0/0	0004	100	~~	0070		~~	1200	1200	2.49	0.10	10 12	11	5.00	100 24	14	1403 : 2.28 :	19127 11 38.16 2	30.00	0170	0.74	0.39	0.88		•	10/1	LL 7 01	230.03	38.13	27.28	14178 28.26	0.00 2	8.26 2	826 2	4226 1422 8.35 28.3
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TEMPERATURE - *F	AMBIENT	AMBIENT	T AMBIEN	AMBIEN	AMBIEN	T AMBIE	NT AMBI	ENT AMB	IENT A	1BIENT AME	BIENT AM	BIENT									AMB	ENT	250 AM	D.36 BIENT	400	350	350 /	MBIENT	AMBIENT	350 /	AMBIENT	350	1600	250 AM	BIENT	250	900 18	850	171	186 AMB	BIENT	170	171	171	183 A	MBIENT	112	112	174		AMBIENT	193	171	AMBIENT	171	171		171	171	120
pH																																			7	10.5			7		14	7	7	7		7	7	7					7	7	7	7		7	7	7
DISSOLVED SOLIDS - MG/L																																			550	7961			2177	500	0000 8	2117	1557	1557		550	550	550					1723	550	2177	2081		2081 8	2081	550
SUSPENDED SOLIDS - MG/L																											_				_				10	0			694		0	694	10	10		10	10	10					10	10	694	662		662	662	660
										-																																																		

THE DATA PRESENTED ABOVE ARE OFFERED

TO DESCRIBE A TYPICAL OPERATING CONDITION AND ARE NOT INTENDED TO DEFINE THE



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INSTRUMENT I.D. LETTERS

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B

С

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LETTER	VARIABLE TYPES	FUNCTION CODES
Α	ANALYSIS	ALARM
B	BURNER FLAME	BYPASS
С		CONTROLLER
D		DIFFERENTIAL
Ε	VOLTAGE	ELEMENT (PRIMARY)
F	FLOV	RATIO (FRACTION)
G	GAUGING (DIMENSIONS)	GLASS/GAUGE
Н	HAND ACTUATED	HIGH
I	CURRENT	INDICATOR
J	POWER (WATTS)	MULTIPEINT (SCAN)
к	TIME	CONTROL STATION
L	LEVEL	LIGHT/LOW
Μ		MIDDLE
N		
0		ORIFICE (RESTRICTION)
Ρ	PRESSURE/VACUUM	POINT
Q	QUANTITY/NUMBER	TOTALIZER
R	RUN	RECORDER
S	SPEED/FREQUENCY	SAFETY/SWITCH
T	TEMPERATURE	TRANSMITTER
U	MULTIVARIABLE	MALFUNCTION
V	VIBRATION	VALVE
٧	WEIGHT	WELL
X	UNCLASSIFIED	SHUTDOWN/INTERLOCK
Y	EVENT	RELAY
Z	POSITION	DRIVE/ACTUATE

PARKER PERMIT APPLICATION DRAWING INDEX

D11135-200	– LEGEND & SPECIALTY ITEMS
D11135-201	– Spent Carbon Storage / H–1
D11135-202	– Spent Carbon Storage / H–2
D11135-203	- RECYCLE WATER
D11135-205	- PROCESS WATER DISCHARGE TO POTW
D11135-211	– UTILITIES – PW – NG – STM
D11135-213	- Furnace # 2 Feed system
D11135-214	- REACTIVATION FURNACE # 2
D11135-215	- Furnace # 2 product handling system
D11135-216	- Furnace # 2 OFF GAS Scrubber
D11135-217	- Furnace # 2 process water

INSTRUMENT SYMBOLS

\bigcirc	=	PLC I/D
\bigcirc	=	OPERATOR INTERFACE
çç	=	INSTRUMENT HARDWIRED SIGNAL
5 	=	INSTRUMENT SOFTWARE INTERCONNECT
5 // // // S	=	INSTRUMENT PNEUMATIC SIGNAL
\diamond	-	INTERLOCK IDENTIFIER
\bigcirc	=	FIELD INSTRUMENT
\ominus	=	PANEL INSTRUMENT ACCESSIBLE TO OPERATOR
\bigcirc	=	PANEL INSTRUMENT NOT NORMALLY ACCESSIBLE TO OPERATOR



	4	2/22/07		UPDATED FOR PERMIT SUBM	ITTAL	JBE	KEM	
	3	7/17/02	REVISE	FOR RCRA PART B PERMIT	APPLICATION	STA	KEM	
	2	7/17/96		AS BUILT		СНЈ		
	1	3/27/96		GENERAL REVISIONS		AJL	KEM	
	REV.	DATE		REVISION DESCRIPTION		DRAWN	CHK'D	ENG'R
	TEC	IEMENS HNOLOG	IES CORP.	SIEMENS WATI	ER TECHNOLA Parker, AZ	OGIES	S COF	
IG			AHAR ST. Z 85344		IVATION FACII			[U/ 66/ 6
PERTY BE D TO RESS	PROJE DRAW		11135 1/02/96 1/02/96		& SPECIALTY STRUMENTATIO		-	LT DATE.
IEMENS P.	ENG'F		1/02/90	PART No.	DWG No. D1113	5–20	0 ^{REV.}	4

THIS DRAWING INCLUDES COMPONENTS OF THE FACILITY THAT ARE EXEMPT FROM PERMITTING UNDER VARIOUS PROVISIONS OF RCRA. DATA RELATED TO THESE COMPONENTS IS PROVIDED FOR INFORMATIONAL PURPOSES AND EASE OF REVIEW ONLY, AND THEY ARE NOT INTENDED TO BECOME REGULATED COMPONENTS OF THE HAZARDOUS WASTE FACILITY.

NOTE:

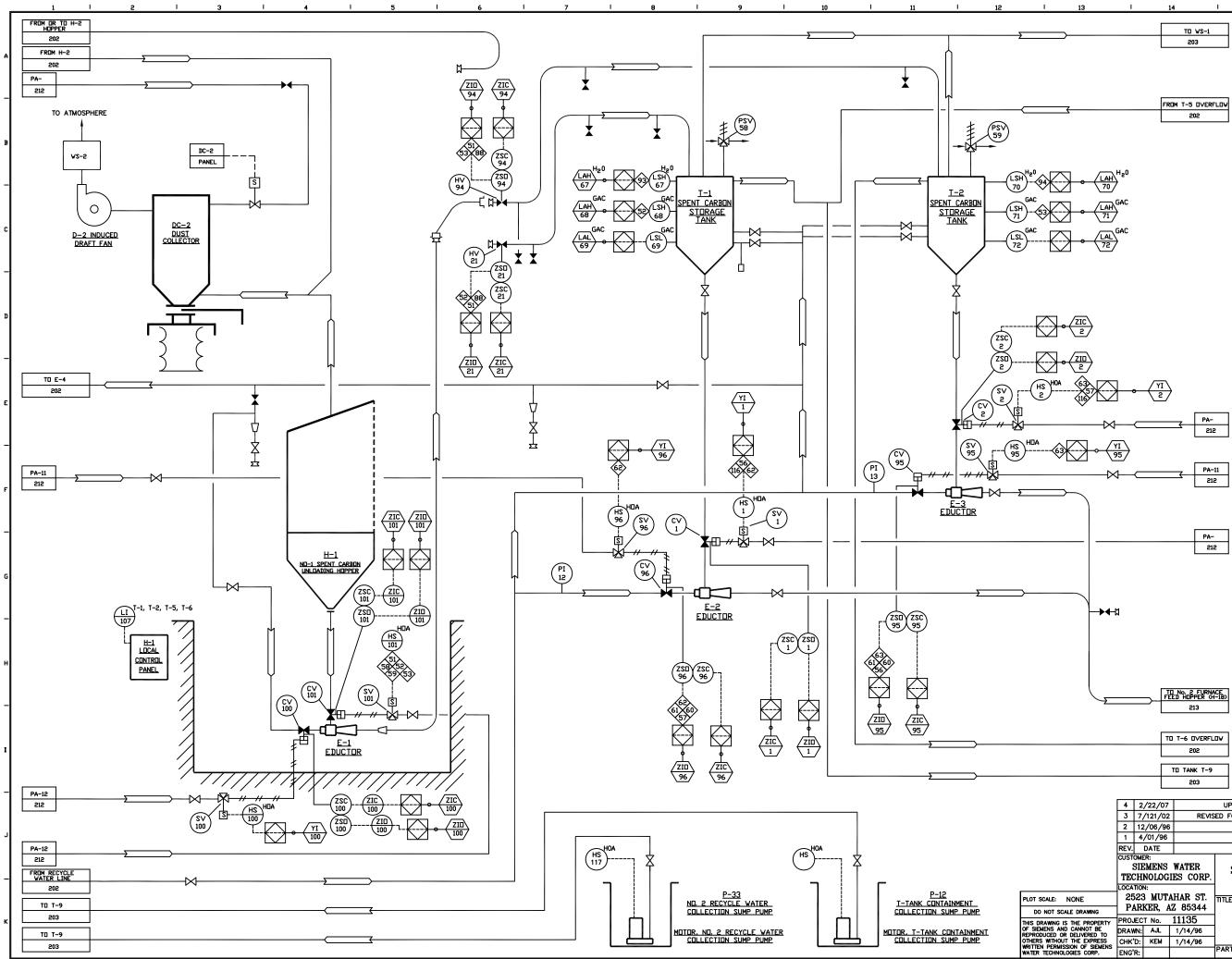
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Т

16 1 17 DWG: D11135-200



<u> </u>	14	1
	T0 VS-1	
	203	

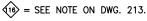
FROM T-5 OVERFLOW
202

	(5) = <u>TRANSFER FROM H-1 TO T-1, 2, 5, OR 6</u> : EITHER HV-21, HV-94, HV-33, OR HV-23 MUST BE OPEN FOR CV-101 TO OPEN.
.0~	√52 = SLURRY TRANSFER FROM H−1 OR H−2 TO T−1 IS PREVENTED IF CARBON LEVEL REACHES LSH−68.
	$\langle \widehat{53} \rangle$ = SLURRY TRANSFER FROM H-1 OR H-2 TO T-2 IS PREVENTED IF CARBON LEVEL REACHES LSH-71.
	$ \begin{array}{l} \hline \hline \hline \\ \hline $
	$\langle 57 \rangle = \frac{\text{PREVENTION OF DOUBLE SLURRY FROM T-2:}}{\text{CV-2} WILL BE HELD SHUT IF CV-96, CV-24, OR CV-97 ARE OPEN.}$
	$\overline{58}$ = SEE NOTE ON DWG. 202
	59 = SEE NOTE ON DWG. 202
	(60) = SEE NOTE ON DWG. 202
	$\langle 61 \rangle$ = SEE NOTE ON DWG. 202
	\wedge

INTERLOCK NOTES

17 DWG: D11135-201

 $\langle 88 \rangle$ = SEE NOTE ON DWG. 202.

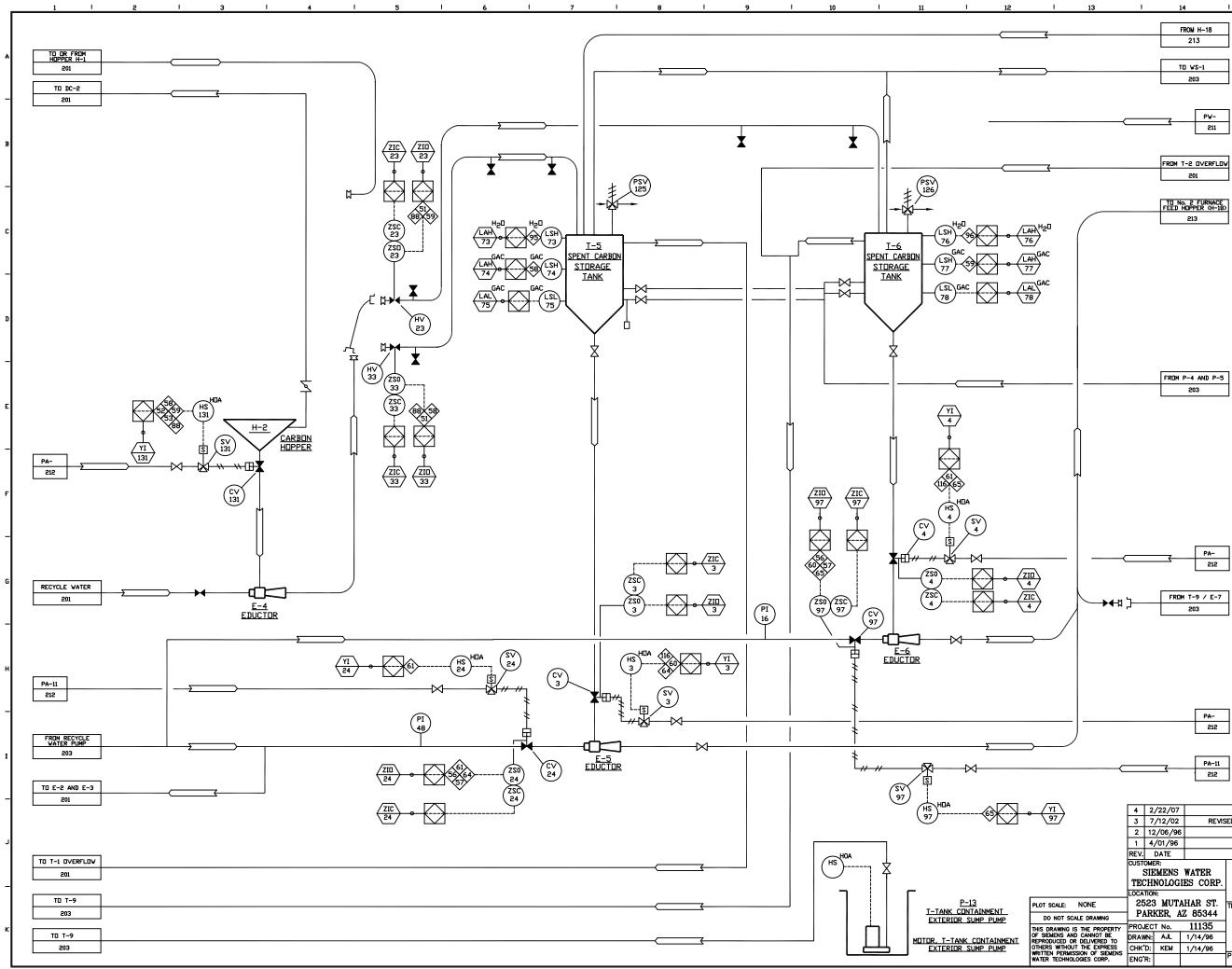




THIS DRAWING INCLUDES COMPONENTS OF THE FACILITY THAT ARE EXEMPT FROM PERMITTING UNDER VARIOUS PROVISIONS OF RCRA. DATA RELATED TO THESE COMPONENTS IS PROVIDED FOR INFORMATIONAL PURPOSES AND EASE OF REVIEW ONLY, AND THEY ARE NOT INTENDED TO BECOME REGULATED COMPONENTS OF THE HAZARDOUS WASTE FACILITY.

	PA-
	212

	4	2/22/07		UPDATED FOR	PERMIT SUBM	ITTAL	JBE	KEM		
	3	7/121/02	REVIS	ED FOR RCRA PA	RT B PERMIT	APPLICATION	STA	KEM		
	2	12/06/96	5	AS	BUILT		TGB			
	1	4/01/96		GENERA	L REVISIONS		AJL	KEM		
	REV.	DATE		REVISION	DESCRIPTION		DRAWN	CHK'D	ENG'R	
	TEC	HNOLOG	WATER IES CORP.	SIEMEN		R TECHNOLO arker, AZ	OGIE	S COP	RP.	2/07
G			AHAR ST. AZ 85344	TITLE:		TIVATION FAC				E: 2/2
	PROJ	ECT No.	11135		SPENT CA	ARBON STORA	GE /	H-1		DATE:
BE D TO	DRAW	N: AJL	1/14/96	PIP	ING & IN	STRUMENTAT	ION I	DIAGRA		
RESS	CHK'): KEM	1/14/96							PRINT
P.	ENG'F	2:		PART No.		DWG No. D1113	5-20	1 REV.	4	



1	14	1
		H-18
	21	3
	יע סד	S-1
	20	3
	<u> </u>	PV- 211
	FROM T-2	OVERFLOW
	20	1
	to no. 2 Feed hopp	FURNACE ER (H-18)
	213	a

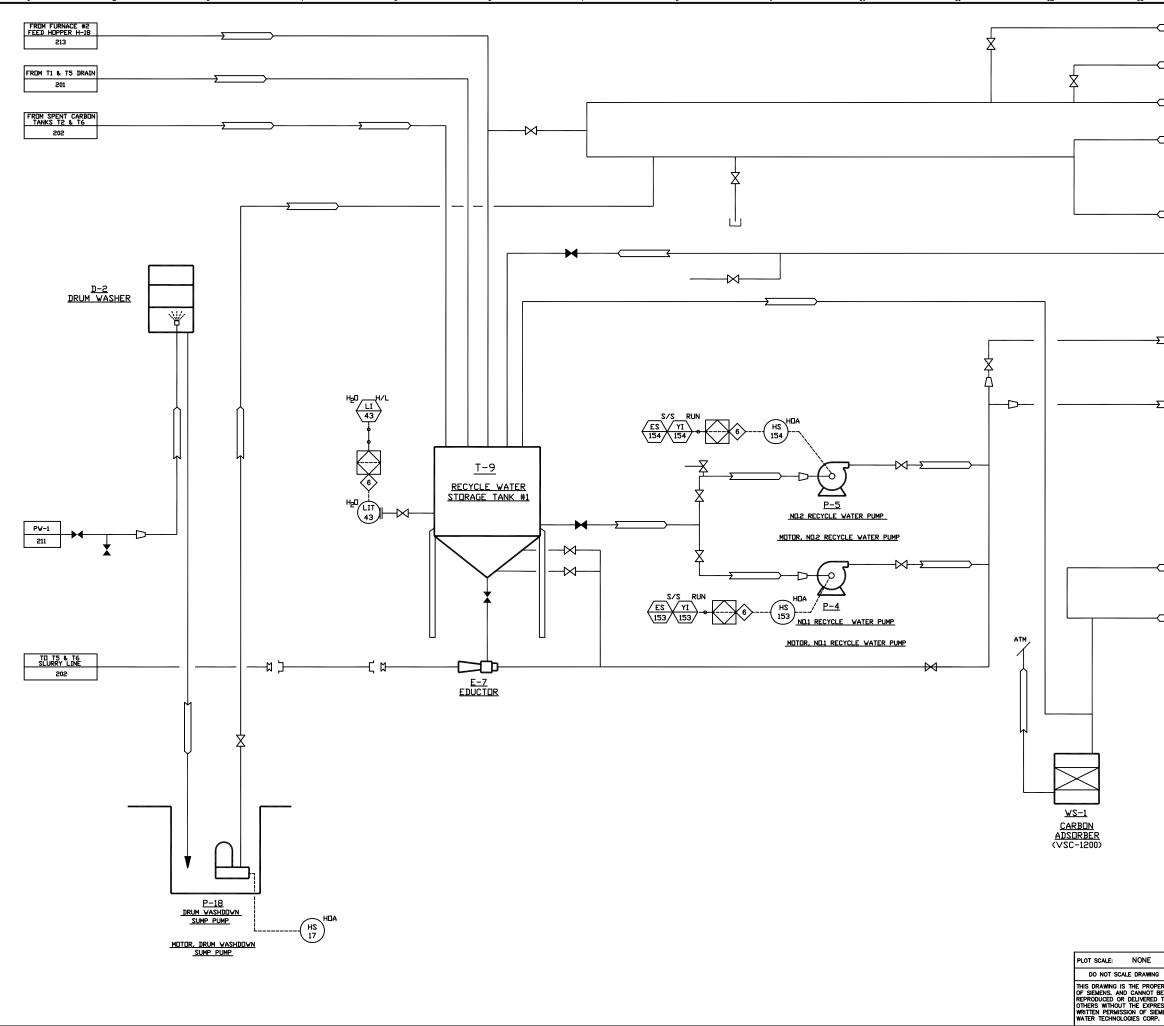
15	5 16	17
	INTERLOCK NOTES	DWG: D11135-202
(51) =	SEE NOTE ON DWG. 201	
\$ ≥ =	SEE NOTE ON DWG. 201	
√ 53 =	SEE NOTE ON DWG. 201	
56 =	SEE NOTE ON DWG. 201	
\$77 =	SEE NOTE ON DWG. 201	
<u>(58)</u> =	SLURRY TRANSFER FROM H-1 T-5 IS PREVENTED IF CARBON REACHES LSH-74.	
<u>(</u> 59) =	SLURRY TRANSFER FROM H-1 T-6 IS PREVENTED IF CARBON REACHES LSH-77.	
<u>60</u> =	PREVENTION OF DOUBLE SLURR CV-3 WILL BE HELD SHUT IF O CV-96, OR CV-97 ARE OPEN.	
61 =	PREVENTION OF DOUBLE SLURR CV-4 WILL BE HELD SHUT IF (CV-96, OR CV-24 ARE OPEN.	
(88) =	TRANSFER FROM H-2 TO T-1. EITHER HV-21, HV-94, HV-33	

- HV-23 MUST BE OPEN FOR CV-131 TO OPEN.
- (1) = SEE NOTE ON DWG. 213.

NOTE:

THIS DRAWING INCLUDES COMPONENTS OF THE FACILITY THAT ARE EXEMPT FROM PERMITTING UNDER VARIOUS PROVISIONS OF RCRA. DATA RELATED TO THESE COMPONENTS IS PROVIDED FOR INFORMATIONAL PURPOSES AND EASE OF REVIEW ONLY, AND THEY ARE NOT INTENDED TO BECOME REGULATED COMPONENTS OF THE HAZARDOUS WASTE FACILITY.

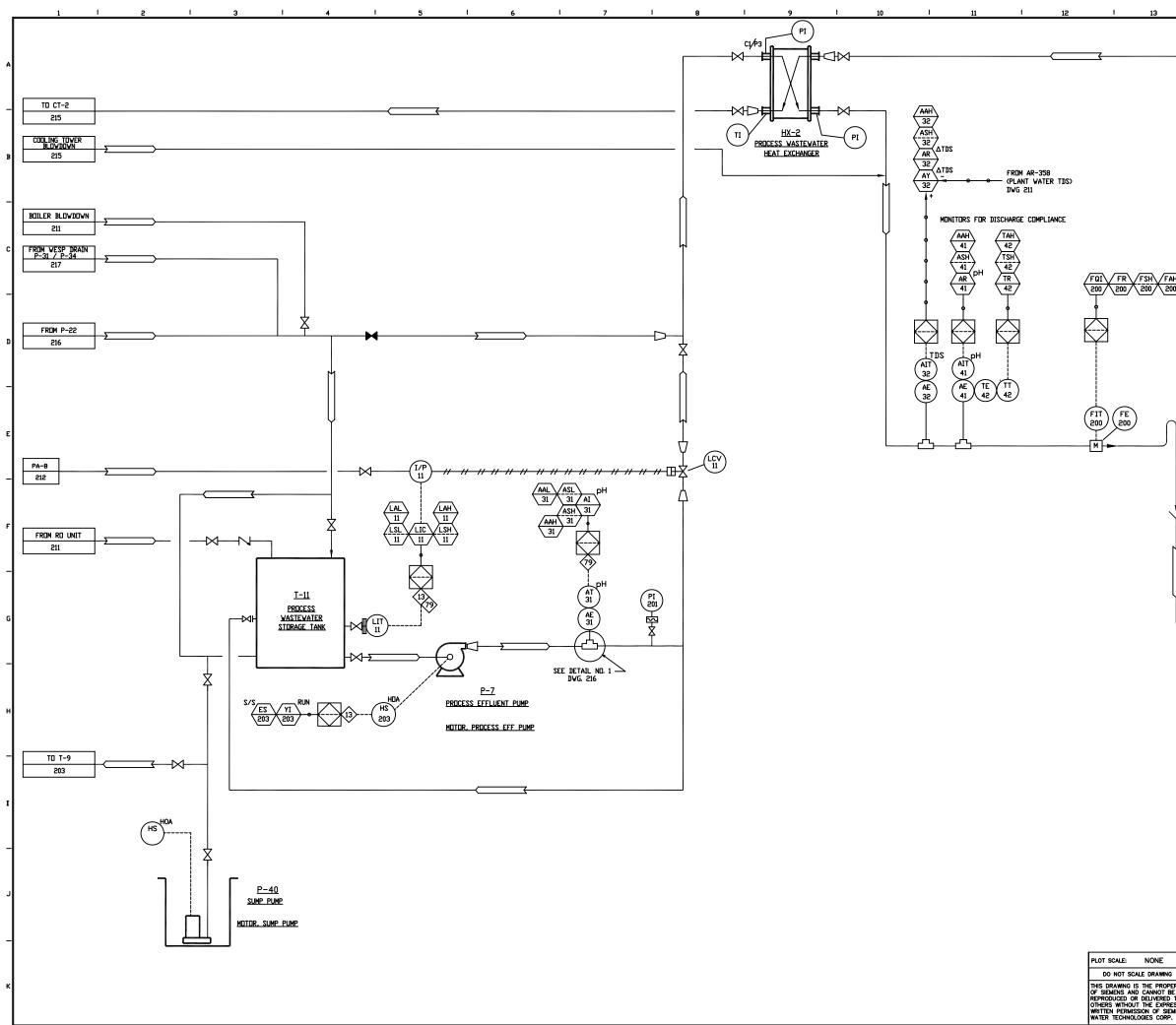
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	4	2/22/07		UPDATED FOR F	PERMIT SUBM	IITTAL	JBE	KEM			
	3	7/12/02	REVIS	SED FOR RCRA PART B PERMIT APPLICATION AS BUILT				KEM			
	2	12/06/96	6								
	1	4/01/96		GENERAL	AJL	KEM					
	REV.	DATE		REVISION D	REVISION DESCRIPTION						
	TEC	HNOLOG	IES CORP.	SIEMENS		R TECHNOL arker, AZ	OGIES	S COF	RP.	2/22/07	
G			AHAR ST. AZ 85344	TITLE:	REACTIVATION FACILITY						
	PROJ	ECT No.	11135	SPENT CARBON STORAGE / H-2						DATE:	
BE D TO	DRAW	N: AJL	1/14/96	PIPI	PIPING & INSTRUMENTATION DIAGRAM						
RESS	CHK'): KEM	1/14/96								
P.	ENG'F	₹:		PART No.		DWG No. D1113	5–20	2 REV.	4	PRINT	



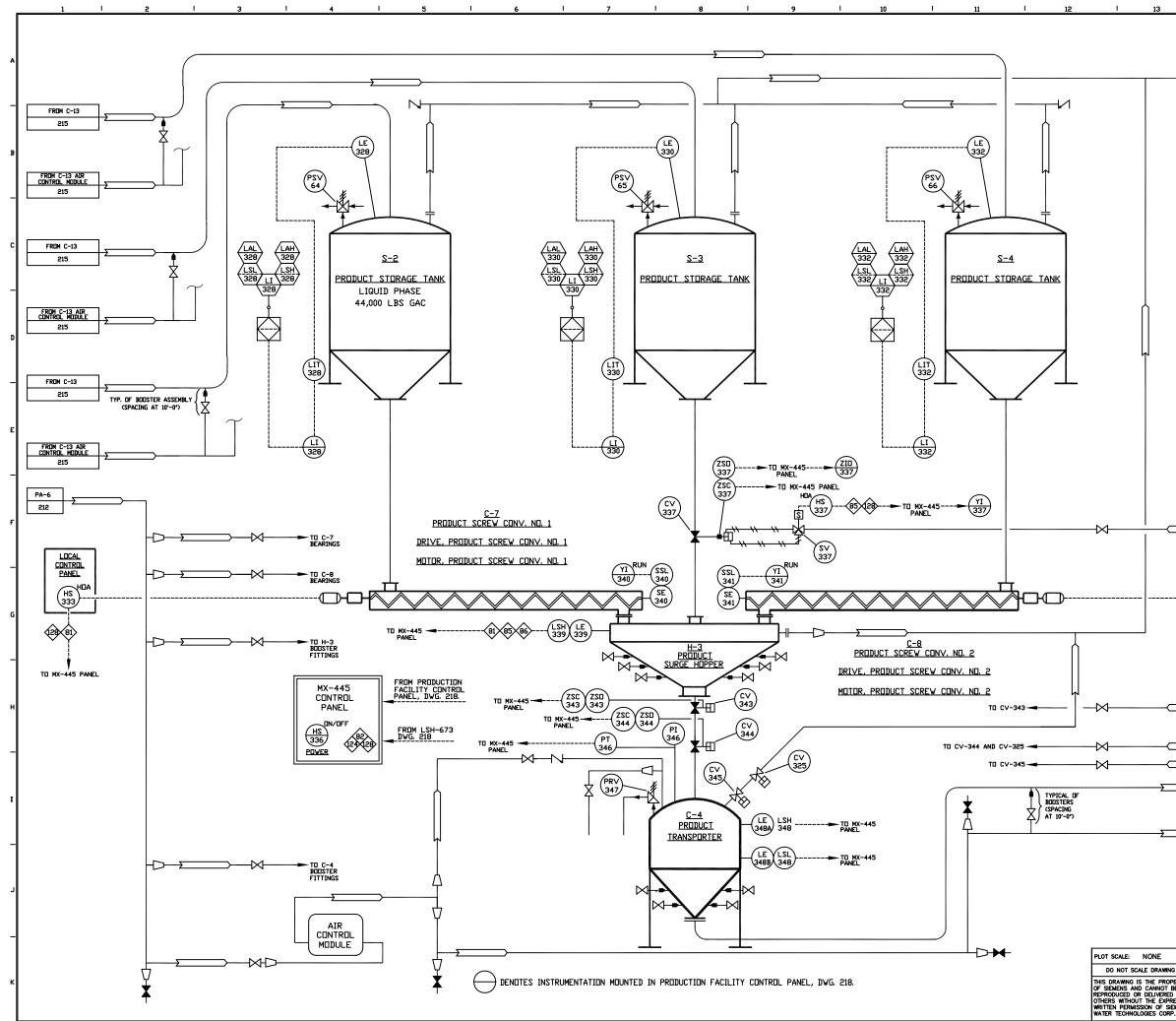
			14	1	15	1	16			17 D11106	: 000
		, [FROM P-13	3					046	D1113	J-203
~ <u> </u>			202			INTERL	OCK NOTES	:			
		г			<u>(6)</u> =	RECYCLI	E WATER PU	JPS P	_4 AN	ID P-5	
\leftarrow		ζ	FROM P-9 211		\sim	WILL ST	OP WHEN LE	VEL IN	1 T-9	IS	
		L				LESS TH	IAN 10% (12	2 INCH	ES).		
		, [FROM P-40)							
~		,	205								
		г									
\leftarrow		<u> </u>	FROM P-33	3							
		L	201								
		г									
\leftarrow		<u> </u>	FROM P-12 201								
		L									
			PW	/-3							
			â	211							
<u> </u>		<u> </u>	TO E-5 & E	-6							
-		Ĺ	202								
		. [TO T-5 AND	T-6							
		\rightarrow	202								
		-									
		_ [FROM T-5 AND	T-6							
\leftarrow		3	202								
		-									
		г		1							
-		<u> </u>	FROM T-1 AND	T-2							
		L	201								
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			AND E	EASE OF	REVIEW ON	ILY, AND	FORMATIONAL P THEY ARE NOT	INTEND	ED		
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		/22/07			D FOR PER				JBE	KEM	
		/16/02		FORR			APPLICATION		STA	KEM	
		2/06/96 ·/02/96	-		AS BUI GENERAL RE				TGB AJL	KEM	
		DATE			EVISION DES				DRAWN	CHK'D	ENG'R
	CUSTOM		WATTED	~-		TAT /				~ ~ ~ ~	
			WATER IES CORP.	SI	LEMENS		ER TECH		JGIE	5 COI	χР.
	LOCATIO	N:					Parker,	AZ			
			AHAR ST. Z 85344	TITLE:		DE		E • ~	****		
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ed to Press Siemens	CHK'D:	KEM	1/02/96			11				1001	
REMENS RP.	ENG'R:			PART N	lo.		DWG No. D	1113	5–20	3 Rev.	4

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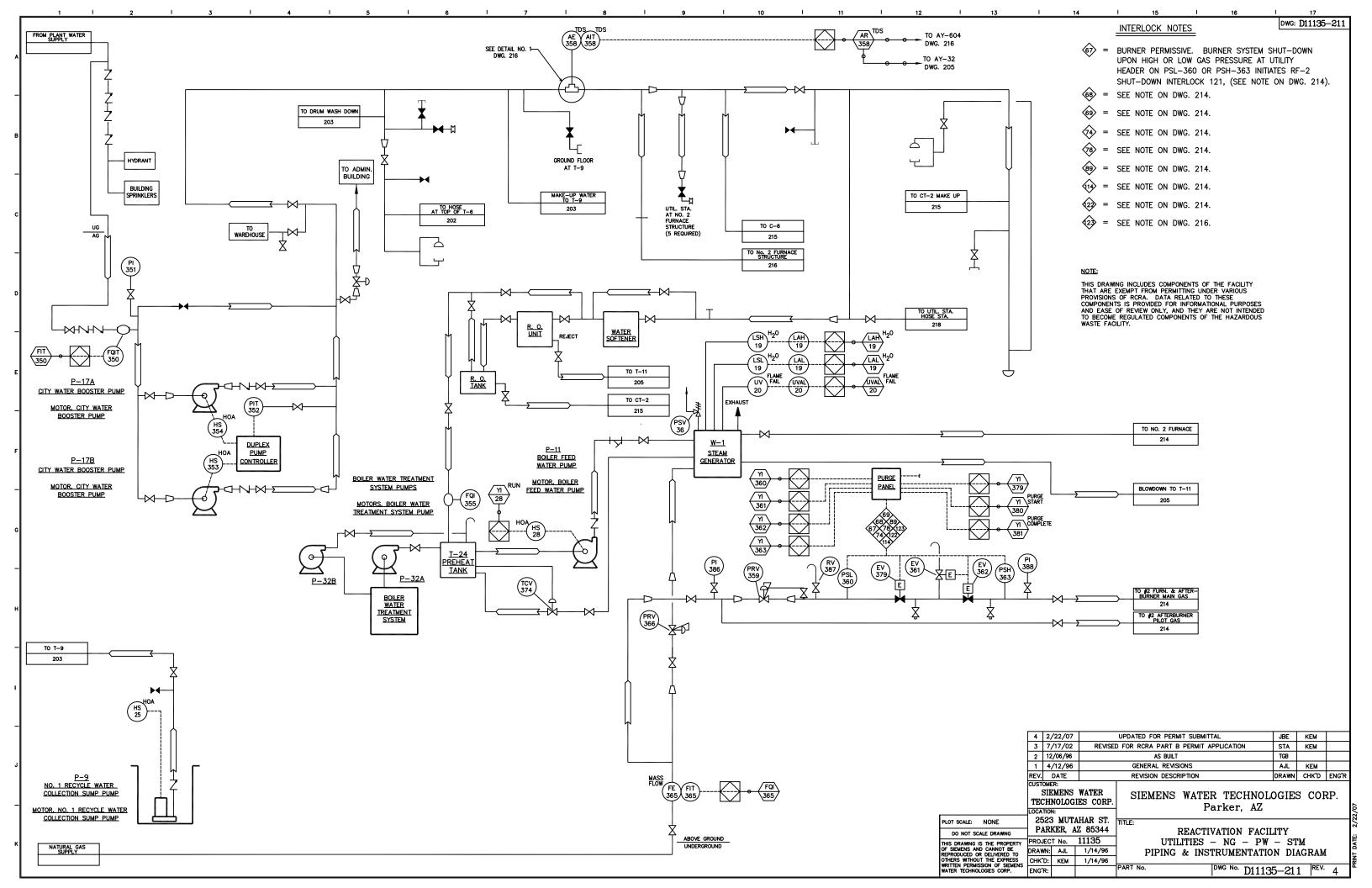
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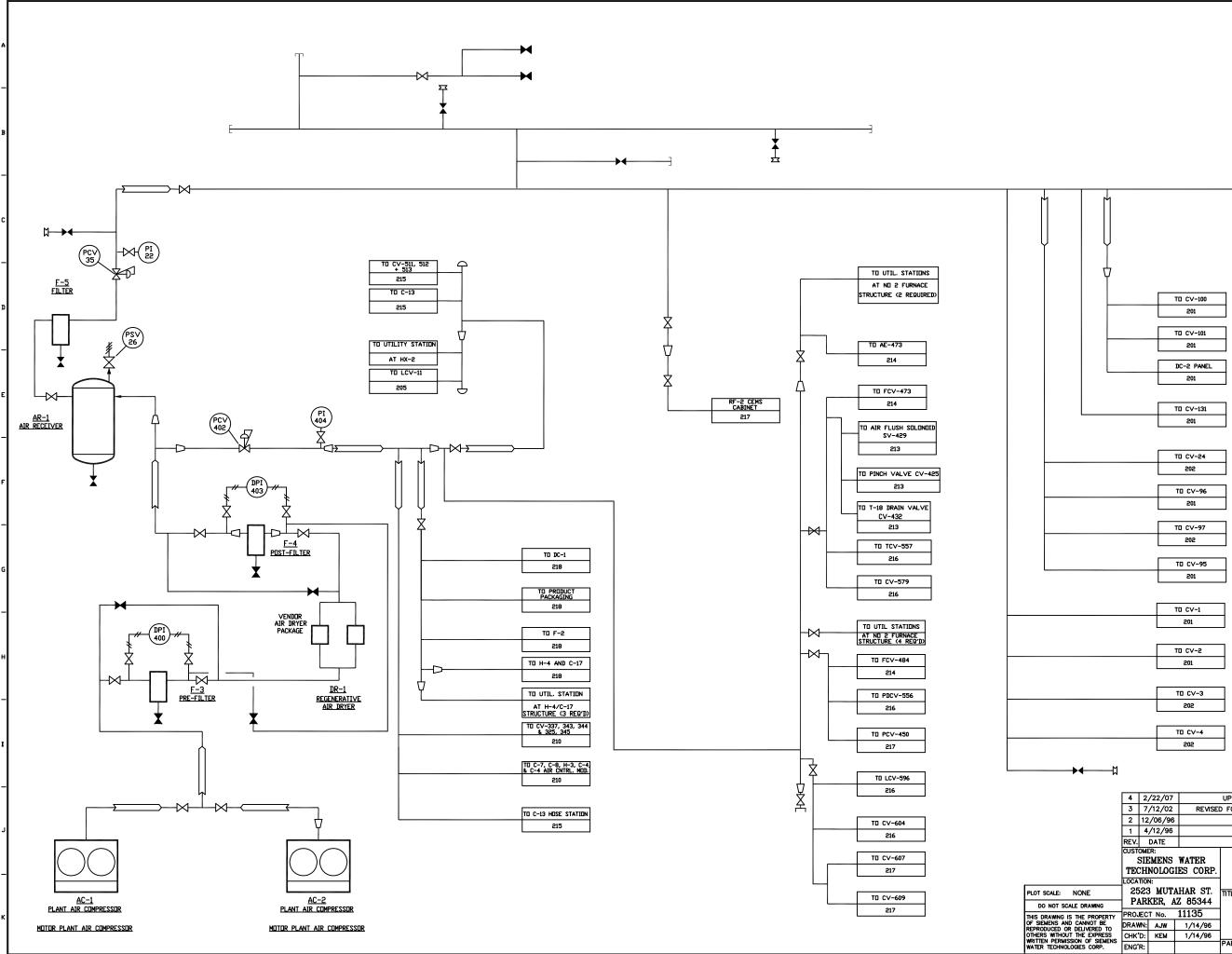


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	1 4	/08/96 /01/96 DATE		ED			TION, O		L REVISION		AJL	KEM CHK'D	ENG'R
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G			AHAR ST AZ 85344		TITLE:		REA	CTIV	ATION F		ITY		
PERTY	PROJEC DRAWN:		11135				SS W.	ATER	DISCH	ARGE	Е ТО		
) to Ress Emens	CHK'D: ENG'R:	KEM	1/14/96	3	PART No.		oc 1.		WG No. DI				1
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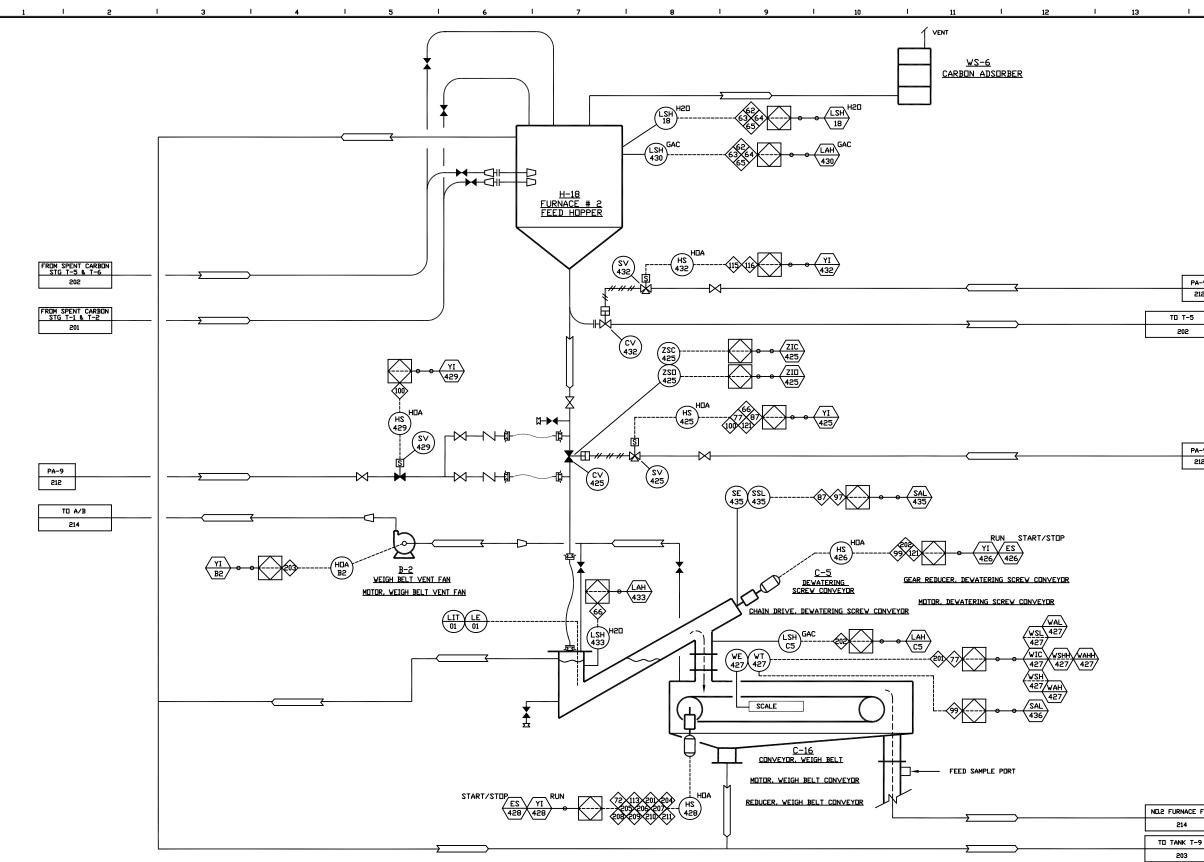
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						82> =	TRANSPO IS INITIA	I TRANSFER F ORTER TO H- ATED WHEN CA BELOW LSH-6	4 RECEIV ARBON LE	'ING HOF EVEL	
						 (85) = 	CV-337 IN H-3 LSH-33 LOADING CLOSES	STORAGE TAN OPENS WHEI SURGE HOPF 9 UNLESS C- 3 CYCLE IS IN WHEN CARBO S LSH-339.	n carboi Per falls -4 trans I progre	n level 5 below Porter 55. Cv	1 1-337
						(86) =	Convey Level II Below	STORAGE TAN OR C-8 STAF N H-3 SURGI LSH-339 ANI I LEVEL IN H-	RTS WHEN E HOPPEF D C-8 ST	CARBOI R FALLS TOPS WH	IEN
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				L		J					
	_			to H-4 L Packagi	.INE IN PROD. NG BUILDING]					
	`				218]					
	4	2/22/0		REVISE	UPDATED		PERMIT A		JBE STA	KEM KEM	
	2	12/06/9	96			AS BUIL	т		TGB		
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	TEC	HNOLO				MENS		R TECHNC arker, AZ		S COF	х₽.
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G	P/	RKER,	AZ 8	5344				VATION FA		ar	
PERTY	PROJ	ECT No. N: AJL	111	. <u>35</u> ′12/96	p			D CARBON			1
) to Ress Emens	снк'	D: KEM		12/96			~ 1110.				
P	ENG	रः			PART No.			D11	135–21	0 REV.	4

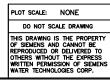




	4	2/22/07		UPDATED FOR PERM	JBE	KEM					
	3	7/12/02	REVISE	D FOR RCRA PART B	STA	KEM					
	2	12/06/96	5	AS BUIL	TGB						
	1	4/12/96		GENERAL REV	AJL	KEM					
	REV.	DATE		REVISION DESC	DRAWN	CHK'D	ENG'R				
	TEC	IEMENS HNOLOG	WATER HES CORP.			R TECHNOLA arker, AZ	OGIE	S COP			
IG	PA	RKER, A	AZ 85344	REACTIVATION FACILITY							
PERTY		CT No.	11135			– COMPRESS			[
D TO	DRAW	N: AJW	1/14/96	PIPING	& INS'	FRUMENTATIO	N DL	AGRAM			
RESS IEMENS	CHK'D): KEM	1/14/96								
P.	ENG'R	:		PART No.		^{DWG №.} D1113	5–21	2 REV.	4		

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		TD CV-100
		201
		TO CV-101
		201
		DC-2 PANEL
		201

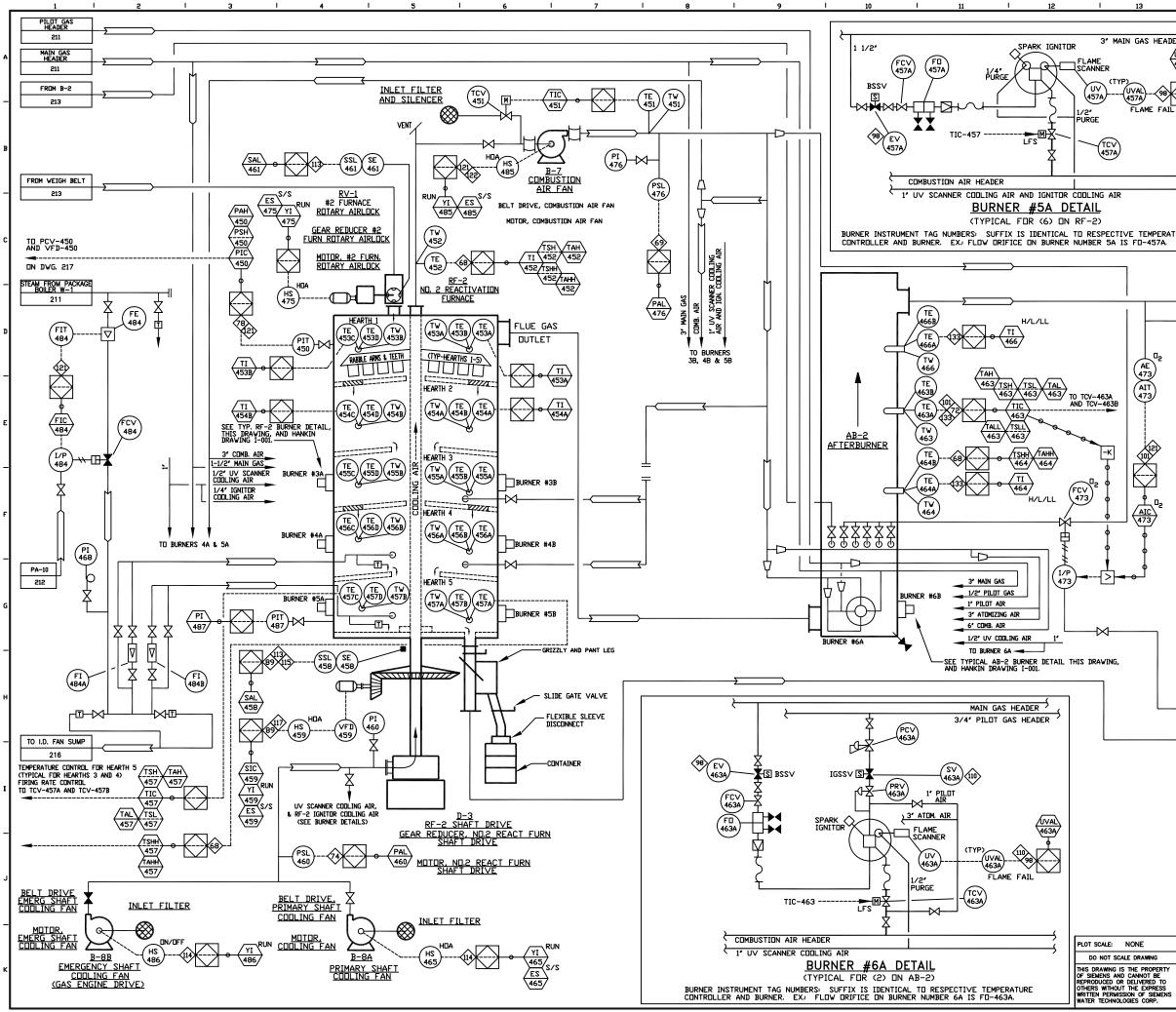




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									DWG	D11135	-213		
					_	NTERLOCK I	NOTES						
				66		IGH WATER L							
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				<72>	= LOW-LOW AFTERBURNER TEMPERATURE ON SELECTED TSLL-463, 464, OR 466 DISABLES C-16								
						ND STOPS FI		-2.					
				\checkmark	W	EED RATE CO	ED RATE V						
						RANGE, WIC-427 ALTERS THE TIME THAT CV-425 IS OPEN.							
				87>	= C'	V-425 IS HE	LD SHUT	WHEN C-	5 IS NOT F	RUNNING			
				ý7)	= s	EE NOTE ON	DWG. 203	3.					
				Ň		-5 IS DISABI				<u>`</u>			
				×									
		PA-9 212		100	LI	V-429 OPEN NE PRIOR TO V-425 CLOSI) CV-425				1		
т	ш т-5	5		13	= C	-16 IS DISA	BLED UNLE	ESS RF-2 RUNNING	ROTARY AI	RLOCK			
	202			\$15		F-2 CENTER				FOR			
				\checkmark	G	REATER THAN RAIN RF-2 F	i 30 minu	tes open	S CV-432	TO			
				\$16		ARBON SLUR				T-1, T-	-2,		
				~	T٠	-5 AND T-6	is disabl	ED IF CV	-432 IS 0	PEN.			
				Ŷ		EE NOTE ON					-		
				201	= HI DI	GH-HIGH SP SABLES C-1	ENI CARBO 6 AND STO	UN FEED OPS FEED	TO RF-2.	SHH-42	./		
	F	PA-9 212		202	Ľ	HEN CARBON SH-C5, C5 I	s stoppei	d. Rest	OP CHUTE ART AFTER				
	L				= 1.1	G CLEARED B D. FAN B-15 UTO. STOPS	MUST BE	E RUNNING	FOR B-2	TO RUN	N IN		
				204	E LOW-LOW VENTURI SCRUBBER DIFFERENTIAL PRESSURE ON PDLL-556 DISABLES C-16 AND STOPS FEED TO RF-2.								
					NF-2. = LOW-LOW QUENCH/VENTURI TOTAL LIQUID FLOW RATE ON FSLL-562 DISABLES C-16 AND STOPS FEED TO RF-2.								
				206	■ LOW-LOW PACKED BED SCRUBBER PH ON ASLL-590 DISABLES C-16 AND STOPS FEED TO RF-2.								
				$\widehat{\mathfrak{O}}$	0	DW-LOW PAC N FSLL-552 F-2.					E		
					= L0	DW-LOW WET	SCRUBBE	R BLOWDO	own Rate (Tops feed	ON TO RF-	-2.		
				209	= LC	DW-LOW WES SABLES C-1	P SECOND 6 AND STO	OARY VOLT	AGE ON ES TO RF-2	LL-558			
				210	= HI	GH-HIGH STA SABLES C-1	ACK GAS F	LOW RATE	ON FSHH	-700			
				21)	= HI	GH-HIGH ST	ACK GAS (CARBON M		10 410			
				~		ONCENTRATION		H-3/5 DI	SABLES C-	IO AND			
				N	OTE:								
				Ti Ti	HIS DF	RAWING INCLUDE	S COMPONE	NTS OF THE	FACILITY				
ND.2 F	URNAC	E FE	ED	PI	ROVISI OMPON	ONS OF RCRA. IENTS IS PROVI	DATA RELA DED FOR INF	TED TO THE	ISE L PURPOSES				
	214			T	D BEC	SE OF REVIEW OME REGULATED FACILITY.	ONLY, AND COMPONEN	INEY ARE N	HAZARDOUS				
ד מד	203	-9	\neg	"									
	4	2/2	 22/07		UPDA	TED FOR PERMI	T SUBMITTAL	<u> </u>	JBE	KEM			
	3	7/1	, 12/02 '06/96	REVISED		RCRA PART B	PERMIT APP		STA	KEM			
	1	4/	01/96			GENERAL REV	ISIONS		TGB AJL	KEM			
	REV. CUST		ATE ::			REVISION DESC	RIPTION		DRAWN	CHK'D	ENG'R		
CUSTOMER: SIEMENS WATER TECHNOLOGIES CORP.					S	SIEMENS				s cof	RP.		
	LOCA	TION:					Pai	rker, A	Z				
IG				AHAR ST. Z 85344	TITLE:		REACTIVA	TION F	ACILITY				
PERTY				11135		FUR	NACE #	2 FEE	D SYSTE				
d to Ress Emens	DRAW CHK	_	AJL KEM	1/14/96 1/14/96	B.F.F.				ATION DI				
EMENS P.	ENG'	R:			PART	NO.	יסן	^{wg No.} D1	1135-21	3 REV.	4		

PA-9 212

DWG No. D11135-213 REV. 4



	I	14		I	15	I	16	1	17		
		1	INTERLO)CK	NOTES			DWG:	D11135	5–214	
		68 =	HIGH-HIC TSHH-45	GH TE 56, TS	MPERATUR SHH-457,	E ON TSHH	STEM SHUT- I-452, TSHI OR TSHH-:	1-455,			
		69 =	BURNER	PERM	IISSIVE. E	BURNER SYS RESSURE C	STEM SHUT- NN PSL-476				
FAIL		72 =	SEE NOT	E ON	DWG. 213	3.					
			LOW CEN ON PSL-	ITER -460	SHAFT COO INITIATES	DLING AIR F RF-2 SHUT	Stem Shut- Pressure f Down int	OR 5 MINU ERLOCK 12	ITES		
	\rightarrow	(78) =	HIGH FU	RNACE	E PRESSUR	BURNER SYS RE ON PSH OWN INTERI	STEM SHUT- -450 FOR LOCK 121.	-DOWN UPC 5 MINUTES	N		
	IRE		CENTER FOR 15	SHAFT MINU	t stopped Tes initiat	ON SSL-4 ES RF-2 S	STEM SHUT- 458 OR LOS SHUT-DOWN	SS OF VFD- INTERLOCK	-459 (121.		
57A. (98) = BURNER SAFETY SHUT-OFF VALVES CLOSE ON BURNER STOP, FLAME FAILURE, LOSS OF BURNER PERMISSIVES OR POWER OUTAGE.											
		(0) =	BURNERS	6A	& 6B AT	LOW FIRE I	CONTROL NITIATES RE 73 FROM T	VERSE	VITH		
		~	FLAME FA	ailuri Er ae	E, LOSS 0 3–2 BSSVs	F BURNER	CLOSE ON PERMISSIVE RING IGNITIC	S OR POW	ER ÓUT/	AGE	
		(13) =	SEE NOT	E ON	DWG. 213	3.					
)]		11 =	BLOWER	B-8A	UNLESS		STEM SHUT- TARTED WITH _OCK 121.			S OF	
)		(15) =	SEE NOT	E ON	DWG. 213	3.					
	 ENABLE VFD-459. RF-2 SHUT-DOWN INTERLOCK: STOP C-5 DEWATERING SCREW. CLOSE CV-425. CLOSE FCV-467. IF RF-2 HIGH PRESSURE ON PSH-450 OR B-15 ID FAN TRIPPED:										
_		433 =			FIRING R/	ATE AND AV	464, TE-46 VFCO SWITCI		FOR		
					EXHAUST G APC SYS 216						
			OBE BLOW BA	CK	Γ	PA-8					
				-	L	212					
			3			PA-8					
						212					
					TD PRD COOLING SC 215						
	NOTE:										
Ī	ihis i Permi	TTING UNDE	R VARIOUS	PROVIS	SIONS OF RO	RA. DATA R	T ARE EXEMP ELATED TO TH	IESE			
4	AND 1	THEY ARE N					ND EASE OF PONENTS OF T		us		
v		E FACILITY.									
г		2 /22 /27		1100 1					V-11		
ŀ	4	2/22/07 7/15/02	REVISE			B PERMIT AF		JBE STA	KEM KEM		
Ľ		12/06/96			AS BL			TGB			
-	1 REV.	4/02/96 DATE			GENERAL R			AJL	KEM CHK'D	ENG'R	
	CUSTO	MER:			NEVISION DE	JUN IUN		URAWN	UNK U		
	TEC	HNOLOGII		S	IEMENS		R TECHN arker, A		S COI	RP.	
	LOCAT 25	10N: 23 MUTA	HAR ST	TITLE:		10	anci, A				
NG	PA	RKER, AZ	85344	IIILE:		RE	ACTIVATIC	N			
		TOT No. 1	1196					TAOD "	~		

 LOCATION:
 111100

 2523 MUTAHAR ST.
 TITLE:

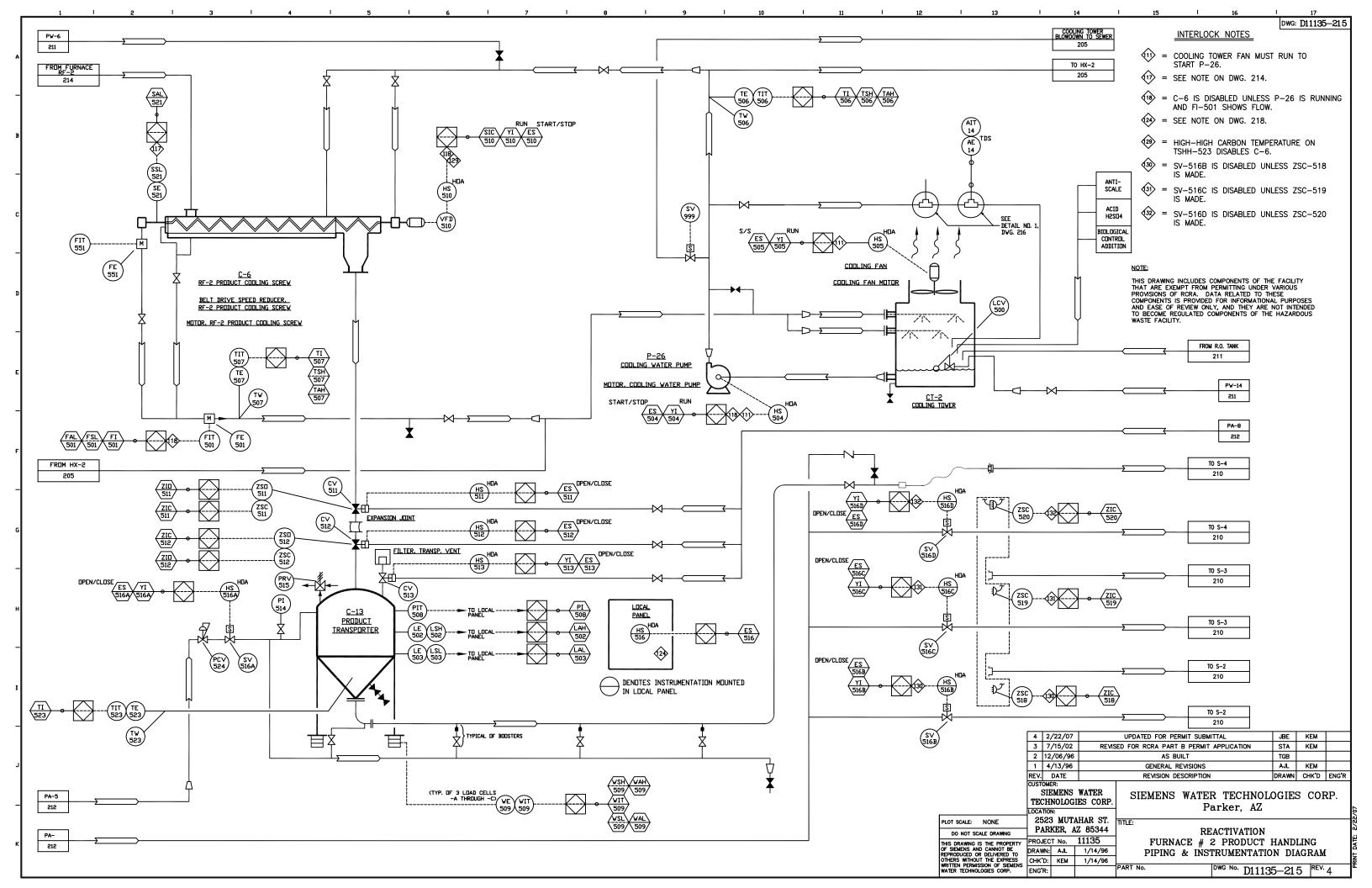
 PROJECT NO.
 11135

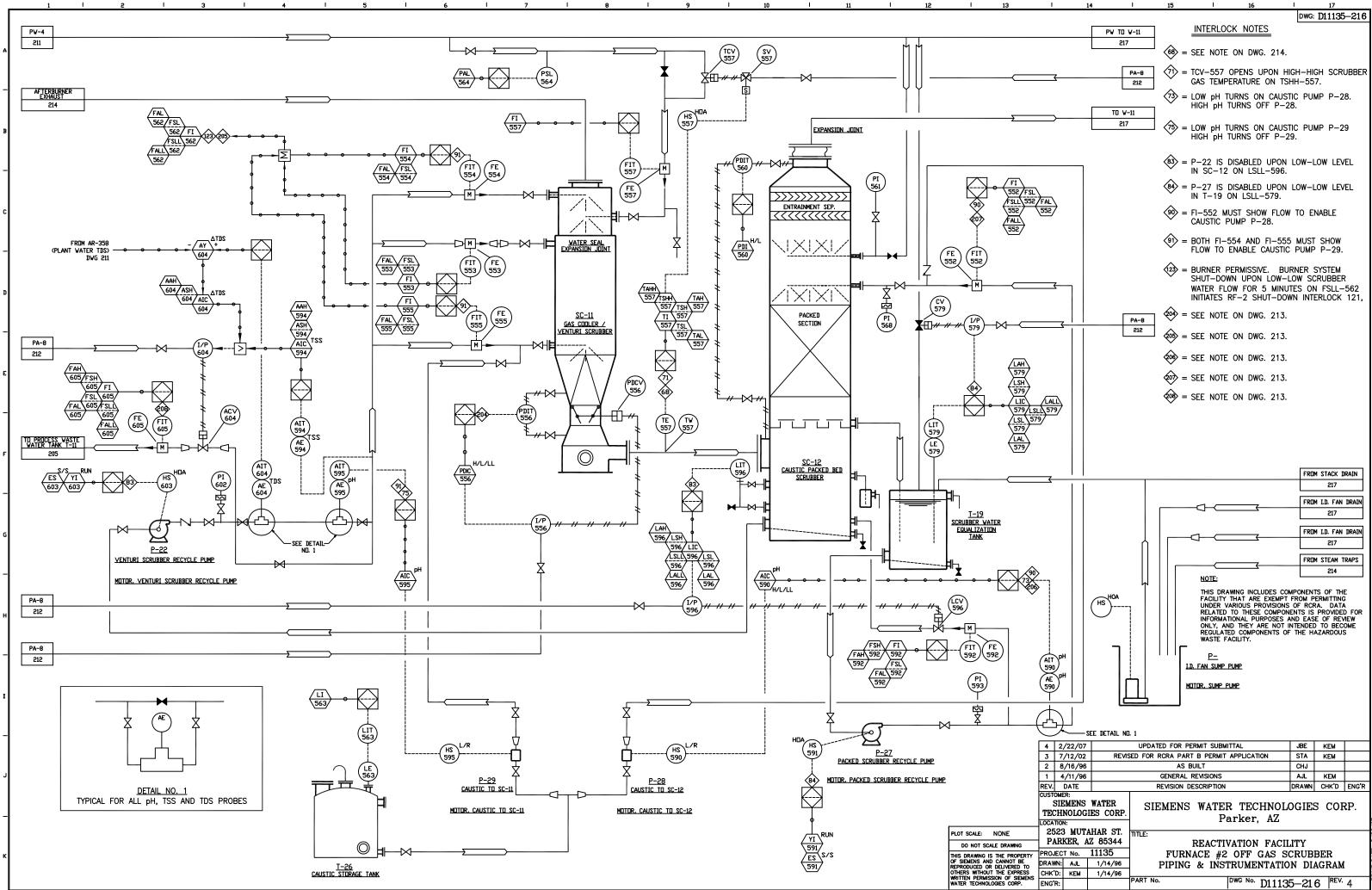
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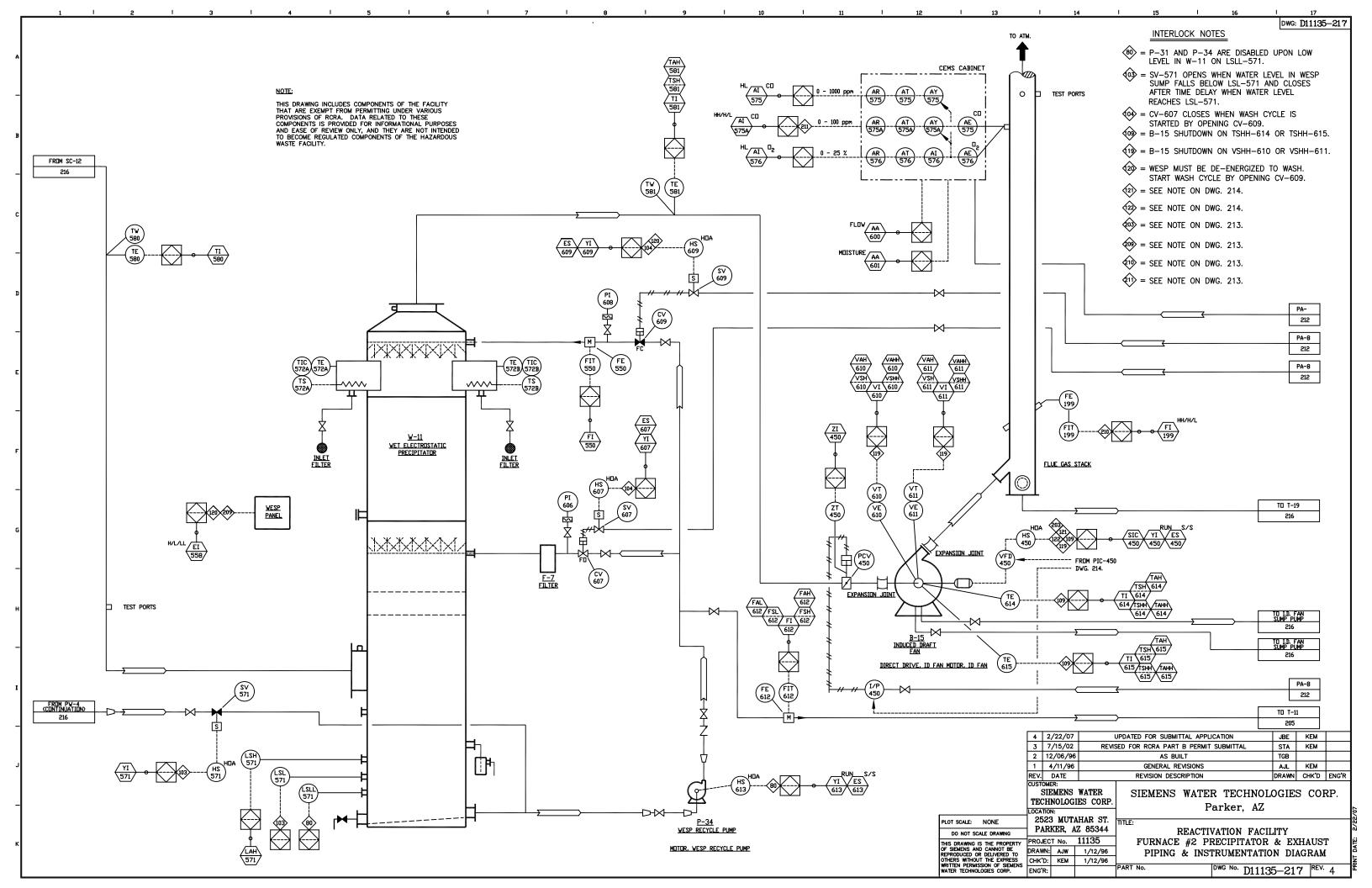
 1/14/96
 PIPING & INSTRUMENTATION DIAGRAM

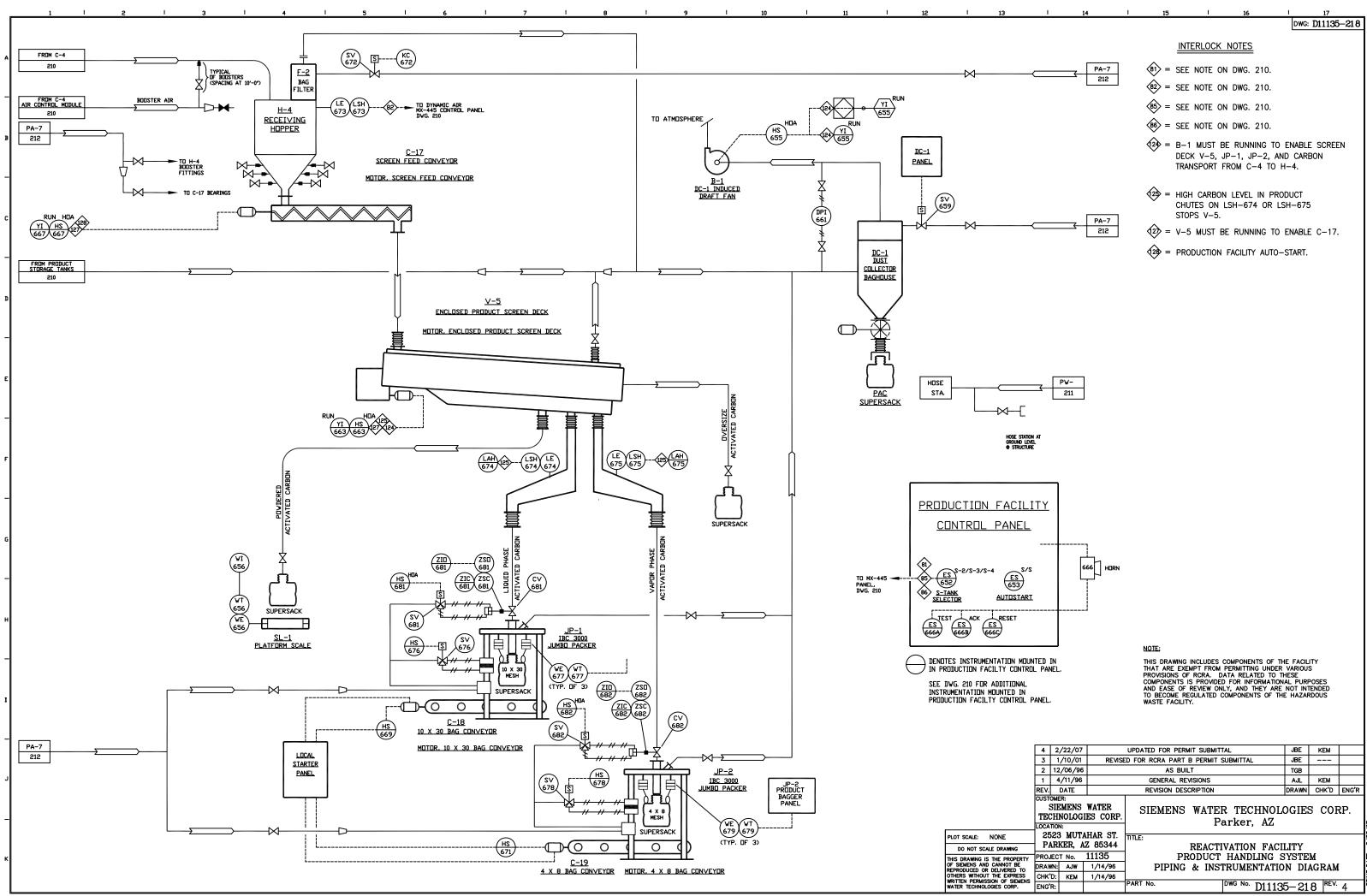
 CHK'D:
 KEM

 ENG'R:
 PART NO.









	REV.	DATE		REVISION DES	CRIPTION		DRAWN	CHK'D	ENG'R		
		emens Inolog	WATER IES CORP.	SIEMENS WATER TECHNOLOGIES CORP. Parker, AZ							
NG	252	3 MUT	AHAR ST. Z 85344	TILE: REACTIVATION FACILITY							
OPERTY	PROJE	CT No.	11135	PF	RODUCT	HANDLING S	YSTEI	M		DATE	
	DRAWN	: AJW	1/14/96	PIPING	& INST	TRUMENTATIO	N DIA	GRAM			
PRESS	CHK'D:	KEM	1/14/96							PRINT	
SIEMENS RP.	ENG'R:			PART No.		^{DWG №.} D1113	5-21	8 REV.	4	ā	