

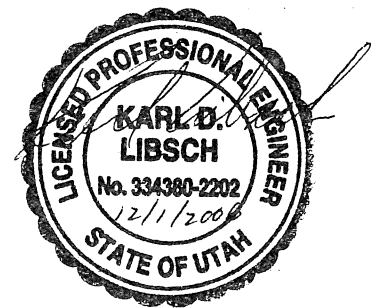
NOTES:
 1. THE WEP CLEANING SPRAY IS OPERATED INTERMITTENTLY.
 2. THE WEP RUNDOWN IS SHOWN FOR CONTINUOUS FOGGING.
 SIZE RUNDOWN FOR CLEANING RATE OF 490 GPM.

LIQUID STREAMS

FLOW = LB/HR	15	16	17	18	19	20
STREAM DESCRP	2ND STAGE LIQUID TO SCRUBBER	2ND STAGE RUNDOWN	1ST STAGE LIQUID TO SCRUBBER	1ST STAGE RUNDOWN	SATURATOR LIQUID FEED	SPRAY DRYER LIQUID FEED
COMPONENT						
NaCl	696	772	6989	7619	1085	630
Na2SO4	103	114	1036	1129	161	93
NaHCO3	12847	14262	4514	4921	701	407
H2O	1047702	1163151	972999	1060775	151053	87777
TOTAL	1061348	1178299	985538	1074444	153000	88907
PH		7.5		6.34		

GAS STREAMS

FLOW = LB/HR	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STREAM DESCRP	ABC EXIT GAS	LEAKAGE ABC->SD	SPRAY DRYER INLET GAS	SPRAY DRYER OUTLET GAS	SPRAY DRYER OUTLET RESIDUE	LEAKAGE SD->BH	BAGHOUSE OUTLET GAS	BAGHOUSE OUTLET RESIDUE	SATURATOR OUTLET GAS	1st STAGE OUTLET GAS	2nd STAGE OUTLET GAS	W.E.S.P. OUTLET GAS	LEAKAGE BH EXIT->STACK	STACK OUTLET GAS
COMPONENT														
ASH	610		610	549	61			549						
NaCl				567	63			567						
Na2SO4				84	9			84						
NaHCO3				367	41			367						
Na2CO3														
O2	12370		12370	12370			12370		12370	12370	12370	12370		12370
N2	131389		131389	131389			131389		131389	131389	131389	131389		131389
CO2	28885		28885	28885			28885		28885	29398	29040	29040		29040
SO2	47.5		47.5	47.5			47.5		47.5	2.4				
HCL	393		393	393			393		393	19.6				
H2O	20873.6		20873.6	108649			108650		130042	130042	30464	30464		30464
TOTAL	194568.1		194568.1	283300.5	174		281734.5	1567	303110.5	303221	203263	203263		203263
TEMPERATURE F	2120	60	2104	420		60	420		178	178	140	140	60	140
ACFM	254738													63868
DRY ACFM														49327



APPROVALS

BY	DATE
CHK	02-25-98
DRAWN	
CHECKED	
ELEC	
MECH	
STRUCT	
PROJECT ENG	
ENGINEERING MGR	
AS BUILT	

Clean Harbors
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TITLE: UTAH ENVIRONMENTAL SERVICE CENTER
 PROCESS FLOW DIAGRAM
 TYPICAL DECEMBER 1997

FOR: TOOELE SITE
 SCALE: _____
 JOB NO: _____
 CAD NO: AP716B
 CLEAN HARBORS DWG NO: D-800-PF-276
 REV: 1

INTERLOCK DESCRIPTION

REVISIONS

REVISIONS

NO	DESCRIPTION	DATE	BY	CHK	ENG MGR
1	LOGO CHANGE	12/1/2006	KL		

NO	DESCRIPTION	DATE	BY	CHK	ENG MGR

REGISTERED PROFESSIONAL ENGINEER
 DATE: _____