P-422
DIAPHRAGM PUMP

P-420A
UNLOADING GEAR PUMP

T-412
DOT PORTAGLE CONTAINER OR TRUCK TANKER

F-420A/B
SLUDGE PAD - 3" STEEL DUPLEX STRAINER

FROM NITROGEN
D-034-PI-402
SOURCE

1"NL-150CC-591

VC-18A

HV 4217

SV 4217

S

DCS

15 psi

PI

A/S

FAIL

PCV 4227

1"NL-150CC-302-3

VB-10A

1"HYC-025CF-302-3

FUME MANAGEMENT
D-034-PI-410
VENT HEADER

2"WS-150CS-301-1"ET

SLUDGE HANDLING
D-034-PI-402

TEMPORARY HOSE CONNECTIONS

Tote

FROM COMPRESS
D-034-PI-606
AIR SOURCE

FROM RAW WATER
D-034-PI-609
SOURCE

T-412

GROUND CLAMP

SLUDGE PAD DIRECT BURN STATION

P-422

VP-18G

AS

11

OPEN
CLOSE
PB 4225

302-3-1
302-3-2
302-3-3

DE

HV 4215

ZSO 4215

ZSC 4215

3"

A
B

F-420A/B
DUPLEX

P-420A

302-3-1
302-3-2
302-3-3

PB START 4214
STOP

SS 4213
REMOTE
LOCAL

JT 4219

PB START 4224
STOP

M

OPEN
CLOSE
PB 4226

HV 4216

ZSO 4216

ZSC 4216

IT 4222

PT 4222

2"WL-150CD-301-1"ET

2"

TO KILN
D-034-PI-106
A-101 BURN NOZZLE
OR A-103 SLUDGE NOZZLE

REGISTERED PROFESSIONAL ENGINEER
No. 7207431-2202
JOHN WILLIAM CALDWELL
07/25/23
STATE OF UTAH

INTERLOCK DESCRIPTION

302-3-1 - PRESSURE INTERLOCK, PUMP OFF AND VALVE CLOSED ON HIGH PRESSURE
302-3-2 - PUMP OFF ON VALVE CLOSED
302-3-3 - MULTIPLE PUMP AND VALVE INTERLOCK, ONLY ONE PUMP AND VALVE ON AT A TIME.

REVISIONS

NO	DESCRIPTION	DATE	BY	CHK		ENG MGR
7	ADDITION OF RETURN LINE FOR SLUDGE LOOP	4-30-19	JWR	CP		JWR
8	ADD TOTE, PUMP, WAND, N2. BYPASS LINE	5-17-22	JSC			
9	ADD PUMP AND VALVE INTERLOCKS	6-1-22	JSC	TH		
10	REMOVE PUMP 402B, REMOVE BYPASS LINE	6-6-23	JSC	KB		
11	ADD SOLENOID AND AIR SUPPLY LINE	7-18-23	JSC	KB		

REVISIONS

NO	DESCRIPTION	DATE	BY	CHK		ENG MGR
4	CORRECTED DWG FOR SLUDGE PAD DIRECT BURN					
	AND ADDED DUPLEX STRAINER BEFORE PUMPS.	11-17-15	MM	LB		
5	ADDED ISOLATION VALVES AND CLARIFIED SIZES	04-22-16	MM	LB		
7	OF FILTER CONNECTIONS AND VENT LINE DWG REF					
6	UPDATED INTERLOCKS	09-13-16	MM	LC		

APPROVALS

	BY	DATE
DRAWN	LCC	05-24-2011
CHECKED		
ELEC		
MECH		
STRUCT		
PROJECT ENG		
ENGINEERING MGR		
AS BUILT		

REGISTERED PROFESSIONAL ENGINEER
DATE:_____

CleanHarbors
ARAGONITE LLC

TITLE
UTAH ENVIRONMENTAL SERVICE CENTER
INCINERATION PLANT FOR INDUSTRIAL WASTES
SLUDGE PAD DIRECT BURN STATION

FOR	CAD NO.
TOOELE SITE	PI302-38
SCALE / JOB NO	SAFETY-KLEEN DWG NO / REV
	D-034-PI-302-3 / 11