

	Grace B-H							
Machine:	Alum Pump			P	lant:	Water Treatment P	lant	
Area:	Filter Building	'	odated:					
Person	nal Protective	Equipment:			Jan.	es less		
Safe	ty Glasses	Steel Toe Shoes	Nitrile	Gloves	Leath	ner Gloves (as needed)		
SAFE O	PERATING PR	OCEDURES:						
1.	Always Lock, Tag sources prior to p this machine, who and/or under any start-up or energi bodily harm.	, and Try to control hazardo performing maintenance or s en removing or bypassing a circumstance where the un ization of the equipment cou	service on guard, expected	2. Use	caution v	working around ch	nemicals.	
(Use this p cause inju	ry. (I.e. repairs, set-u	JRE: servicing or maintenance activitie up, clearing parts, etc.) uipment Needed:	es are performe	ed where the expe	ected energ	gization, start up, or r	release of sto	ored energy may
		TO CONTROL OF THE PROPERTY OF						
	ock Servicing or N		asp	Single F Break				
1. Noti equi 2. Clea mate 3. Iden brea	fy all affected per pment. r the area and equerials. Itify Alum Pump 1 ker panel located If working on AP1A and AP pressure by cergize breaker by	sonnel that you intend to lo uipment of tools, parts and breaker switch, labeled 36, in southwest of Filter Buildi pump diaphragm close valv 1B, by turning clockwise and opening AP1C valve. flipping switch to OFF posita	other in PA ing. ves ATV1, d release ion.	person/p done. 6. Dissipate the Alum the pum	persons to e or relead n Pump 1 p. cmife swit	I include date take hat took out of se ase any stored ene knife switch ON, ch to OFF position	rvice, and ergy by try located on	work being ring to turn n wall behind
Energ	gy Sources:	11						
	Magnitude:	460V						
Energy I	solation Device & Location:	Breaker panel located in south west of Filter Building						
	ervicing or Ma	nintenance: or in neutral position.		1				
 Clear Make Notify energ Remo 	machine or equipme sure all guarding is i y affected personnel t jized. ove locks, devices, an	nt of tools, parts, or people. n place. hat the machine or equipment wind tags from energy isolation device	ces.	Prepared by Approvals				ate:
		re-energize or power-up machine normal operating position.	by returning					



- 100								
Machine:	Alum Pump			P	lant: <u>W</u>	/ater Treatment	Plant	
Area:	Filter Buildin		odated:			_		
Personai	Protectiv	e Equipment:						
	D				9899	1000		
Safety G	Slasses	Steel Toe Shoes	Nitrile	Gloves		er Gloves (as leeded)		
SAFE OPEI	RATING P	ROCEDURES:						
ener serv bypa whe	gy sources ice on this rassing a guare the unexpequipment of	g, and Try to control hazar prior to performing mainten nachine, when removing or rd, and/or under any circulocated start-up or energiza could cause bodily harm.	nance or - mstance	2. Use	caution w	orking around o	chemicals.	
energy may ca	ause injury. (I.	ny servicing or maintenance acti e. repairs, set-up, clearing parts Equipment Needed:		formed where th	ne expected	energization, start	up, or relea	se of stored
		DANGER The of Control of the Contro						
Lock			asp	Single F Break				
equipme 2. Clear the materials 3. Identify breaker 4. Denergiz	 equipment. Clear the area and equipment of tools, parts and other materials. Identify Alum Pump 2 breaker switch, labeled 38, in PA breaker panel located in southwest of Filter Building. If working on pump diaphragm close valves ATV2, AP2A and AP2B, by turning clockwise and release pressure by opening AP2C valve. Denergize breaker by flipping switch to OFF position. person/persons that took out of service, and work being done. Dissipate or release any stored energy by trying to turn the Alum Pump 2 knife switch ON, located on wall behind the pump. Return knife switch to OFF position, and place tag on knife disconnect. 							
Energy S	Sources:	11						
	Magnitude:	460V						
	ation Device & Location:							
 Verify all Clear mad 	controls are "o	Maintenance: off" or in neutral position. nent of tools, parts, or people. s in place.		Prepared by:			Da	ite:
 Notify affe energized 	ected personne	and tags from energy isolation of		Approvals	:			

6. Reverse lockout steps and re-energize or power-up machine by returning energy isolating devices to normal operating position.



→	Conc. BH							
Machine	: Alum Transfe	er Pump		Р	lant:	Water Treatment P	lant	
Area:	Filter Buildin		dated:					
Perso	nal Protective	Equipment:			1			
5	7							
Safe	ety Glasses	Steel Toe Shoes	Nitrile	Gloves	F	aceshield		
	energy sources p service on this m bypassing a guar where the unexp	g, and Try to control hazard prior to performing mainter nachine, when removing or rd, and/or under any circul pected start-up or energiza	nance or - mstance	2. Use	caution	working around o	chemicals	
	the equipment c	ould cause bodily harm.						
(Use this cause inju	ury. (I.e. repairs, set-u	URE: servicing or maintenance activities up, clearing parts, etc.) puipment Needed:	s are performe	ed where the expe	ected energ	gization, start up, or re	elease of sto	red energy may
L	-ock	2 Tags Has	p (as	•				
			ded)					
	Servicing or N			1				
2. Clear mat 3. Idea abo	equipment. ar the area and e terials. ntify Alum Transf ve the motor on Close valves	ersonnel that you intend to equipment of tools, parts are fer Pump disconnect switch lefthand side. Iabeled ATP1 and ATP2. Is pushing switch to OFF por	nd other located	*NOTE* Tag person/pers done. 6. Dissipat turn the located	g shall in sons that se or rele se Alum Tr on the ri	, and tag on disc clude date taken took out of servi ase any stored e ransfer Pump sec ght side of the A OFF position.	out of ser ice, and w nergy by tondary sv	rvice, vork being trying to vitch ON,
			1					
Ener	gy Sources:	11						
	Magnitude:	460V						
Energy	I solation Device & Location:	Breaker panel located in south west of Filter Building						
After S	ervicing or Ma	•	1					
 Verif Clea Make Notif ener Rem Re-e 	y all controls are "off" r machine or equipme e sure all guarding is i fy affected personnel t gized. ove locks, devices, an	or in neutral position. Int of tools, parts, or people. In place. Ithat the machine or equipment wil Ind tags from energy isolation device	es.	Prepared by Approvals			D	ate:



	7.							
Mach	ine: Backwash D	rain Valve 1		Р	lant:	Water Treatment	Plant	
Area:	Filter Buildir	ng Up	dated:					
Per	sonal Protective	Equipment:						
5	1				30	CEASE CEASE COLOR		
S	Safety Glasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)		
SAFE	OPERATING PE	ROCEDURES:						
1	energy sources service on this r bypassing a gua where the unex	g, and Try to control hazard prior to performing mainter machine, when removing or ard, and/or under any circul pected start-up or energiza could cause bodily harm.	nance or mstance	2. Ladd swit	-	be needed to re	each knife	disconnect
(Use t cause	injury. (I.e. repairs, set-	v servicing or maintenance activitie.	s are performe	ed where the expe	ected ener	gization, start up, or	release of st	ored energy may
		DANCED THE REPLIES OF THE PROPERTY OF THE PROP						
	Lock	_	asp					
	re Servicing or I		11					
2. (he equipment.	ersonnel that you intend to equipment of tools, parts ar		*NOTE* Tag person/pers done.	g shall ir sons tha	k, and tag on kni nclude date takei t took out of serv	n out of se vice, and v	work being
ļ.	ocated directly 5 fe pipe gallery.	Orain Valve 1 disconnect sweet behind the valve on the total the behind the valve on the total to the by flipping to OFF position.	wall in the	turn the to open	Backwa located	ease any stored of ash Drain Valve on the face of the vitch to the CLOS	1 motor gr ne valve.	reen switch
				,				
		4 4						
<u>En</u>	ergy Sources:	17						
	Magnitude:	110V						
Ener	gy Isolation Device &							
After	Location: Servicing or Ma	<u> behind valve in gallary</u> aintenance:	I				_1	
1. \ 2. (3. \	Verify all controls are "off Clear machine or equipmo Make sure all guarding is	or in neutral position. ent of tools, parts, or people.	l be re-	Prepared by Approvals				Date:
5. F	energized. Remove locks, devices, a	nd tags from energy isolation devic machine by returning energy isolat	es.					
	o normal operating posit		-					



	-							
Machir	ne: Backwash Di	rain Valve 2		Р	lant:	Water Treatment	Plant	
Area:	Filter Buildin	gUp	dated:		_			
Pers	onal Protective	Equipment:						
5	7				3	CECUS CEC		
Sa	afety Glasses	Steel Toe Shoes	Nitrile G nee	loves (as ded)	Leatl	her Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1.	energy sources particle on this national bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainter machine, when removing or rd, and/or under any circul pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lado swit	-	be needed to re	each knife	disconnect
(Use th cause ii	njury. (I.e. repairs, set-	servicing or maintenance activities	s are performe	d where the expe	ected ener	gization, start up, or	release of st	ored energy may
	3	DANCER THE STREET STREE						
- -	Lock	_	asp					
	e Servicing or N		11		!!		£!+- -	
th 2. Cl m	e equipment. ear the area and e aterials.	ersonnel that you intend to equipment of tools, parts ar arrain Valve 2 disconnect sw	nd other	*NOTE* Tag person/pers done.	g shall in sons that	and tag on kniticlude date takertook out of serverse any stored	n out of se vice, and v	vork being
lo pi	cated directly 5 fee pe gallery.	et behind the valve on the check by flipping to OFF positi	wall in the	turn the to open	Backwa located	on the face of the close to the face of the close the cl	2 motor gr ne valve.	reen switch
<u>Ene</u>	ergy Sources:	M						
	Magnitude:	110V						
Energ	y Isolation Device & Location:	Disconnect switch located behind valve in gallary						
After	Servicing or Ma		•					
1. Ve 2. Cle 3. Ma 4. No en	rify all controls are "off" ear machine or equipme ake sure all guarding is i otify affected personnel t ergized.	or in neutral position. ent of tools, parts, or people.		Prepared by Approvals				Date:
6. Re		machine by returning energy isolat						



Tonal Control								
Machine:	Backwash Dr	rain Valve 3		Р	Plant:	Water Treatment P	lant	
Area:	Filter Building		odated:					
Personal	Protective	Equipment:						
	D					CENS CENS		
Safety	Glasses	Steel Toe Shoes	Nitrile G need	loves (as ded)	Lea	ther Gloves (as needed)		
SAFE OPE	RATING PR	OCEDURES:						
ene ser byp whe	ergy sources provide on this massing a guar ere the unexp	g, and Try to control hazar prior to performing mainte nachine, when removing or and/or under any circu sected start-up or energizabuld cause bodily harm.	nance or - mstance	2. Lad swit		y be needed to rea	ich knife d	disconnect
(Use this proce cause injury. (Ί.e. repairs, set-ι	JRE: servicing or maintenance activitie up, clearing parts, etc.) uipment Needed:	es are performe	ed where the expo	ected ene	ergization, start up, or re	elease of sto	red energy may
		DANGER Base regulation Base regulation						
Lock			asp					
		Maintenance:						
the equ 2. Clear th materia 3. Identify located pipe ga	ilpment. ne area and e ils. / Backwash D directly 5 fee llery.	ersonnel that you intend to quipment of tools, parts a rain Valve 3 disconnect sw et behind the valve on the ch by flipping to OFF posit	nd other vitch wall in the	*NOTE* Tag person/pers done. 6. Dissipat turn the to open	g shall i sons tha te or rel e Backw located	ck, and tag on knife nclude date taken at took out of serving took out of serving as any stored elease any stored eleash Drain Valve 3 don the face of the witch to the CLOSI	out of selice, and we nergy by motor gree valve.	vork being trying to een switch
F	~	. 1/					T	
Energy	Sources:	1						
	Magnitude:	110V						
Energy Isola	ation Device & Location:	Disconnect switch located behind valve in gallary						
After Serv		intenance:	1		1		_1	
 Verify all Clear mad Make surd Notify afferenergized Remove I Re-energ 	controls are "off" chine or equipme e all guarding is in ected personnel t l. ocks, devices, an	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment wi d tags from energy isolation device nachine by returning energy isola	ces.	Prepared by Approvals			D	Pate:



	-							
Machir	ne: Backwash Dr	rain Valve 4		Р	lant:	Water Treatment F	Plant	
Area:	Filter Buildin	g Up	dated:		_			
Pers	onal Protective	Equipment:						
5	7				30	CENT CENT		
Sa	afety Glasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1.	energy sources p service on this m bypassing a gua where the unexp	g, and Try to control hazard prior to performing mainter machine, when removing or rd, and/or under any circur pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lad swit	-	be needed to re	ach knife	disconnect
(Use th cause i	njury. (I.e. repairs, set-	servicing or maintenance activities	s are performe	ed where the expe	ected ener	gization, start up, or i	release of st	ored energy may
		CANCER To a control of the control o						
	Lock	_	asp					
	e Servicing or N		114		11		C!4-l-	
th 2. C	ie equipment.	ersonnel that you intend to equipment of tools, parts ar		*NOTE* Tag	g shall ir	k, and tag on knii nclude date taker t took out of serv	out of se	
lo pi	cated directly 5 fee pe gallery.	rain Valve 4 disconnect swet behind the valve on the valve on the characteristics.	wall in the	turn the	Backwa located	ease any stored eash Drain Valve 4 on the face of the vitch to the CLOS	l motor gi ie valve.	reen switch
4. D	energize kriire swit	cir by inpping to orr positi	OI 1.	7. Return	green sv	viteri to the cece	DE POSITIOI	1.
<u>Ene</u>	ergy Sources:	11						
	Magnitude:	110V						
Energ	y Isolation Device & Location:	Disconnect switch located behind valve in gallary						
After	Servicing or Ma							
 Classification Material No. 	ake sure all guarding is i	nt of tools, parts, or people.	be re-	Prepared by Approvals				Date:
6. Re		nd tags from energy isolation devic machine by returning energy isolat on.						



→								
Machine:	Backwash Pi	ump		P	lant: _\	Water Treatment F	Plant	
Area:	•		pdated:					
Personal	Protective	Equipment:						
	D				JAN STATE OF THE S			
Safety (Glasses	Steel Toe Shoes		otection (as ded)		ner Gloves (as needed)		
SAFE OPEI	RATING PR	ROCEDURES:						
ene serv byp whe	energy sources prior to performing maintenance or service on this machine, when removing or bypassing a guard, and/or under any circumstance where the unexpected start-up or energization of the equipment could cause bodily harm. due to spindle must be running. *(Spindle components may be HOT) 3. Step ladder may be needed to reach disconnect switch above pump.							
OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:								
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		CANGER We will go man the limit of the control of		10				
		•	lasp	3 Valve Co	overs			
 Notify a the equ Clear the materia Identify Service Pump of Denerg Apply head the equ 	 the equipment. Clear the area and equipment of tools, parts and other materials. Identify Backwash Pump disconnect switch in the High Service Pump Room located directly above Backwash Pump on the west side. Denergize knife switch by turning to OFF position. Apply hasp, lock, and tag on knife switch. *NOTE* Tag shall include date taken out of service, person/persons that took out of service, and work being Apply valve covers to A, B, and C valves and then apply locks to each. Dissipate or release any stored energy by trying to push START button on the Backwash Pump main breaker box located behind pump along the west wall. Push STOP button. 							
Energy	Sources:							
	Magnitude:	460V						
Energy Isola	ation Device &	Breaker box located above						
After Serv	Location: icing or Ma	Backwash pump on west side aintenance:					1	
 Verify all Clear mad Make sure 	controls are "off chine or equipme e all guarding is ected personnel	or in neutral position. ent of tools, parts, or people.	ill be re-	Prepared by Approvals			D	ate:

5. Remove locks, devices, and tags from energy isolation devices.6. Re-energize or power-up machine by returning energy isolating devices

to normal operating position.



	7							
Machi	ine: Backwash S	upply Valve 1		Р	lant:	Water Treatment F	Plant	
Area:	Filter Buildin	Up	dated:		_			
Pers	sonal Protective	Equipment:						
5	7				# 1 m	CONT.		
S	Safety Glasses	Steel Toe Shoes		iloves (as eded)	Leat	her Gloves (as needed)		
SAFE	OPERATING PR	ROCEDURES:						
1	energy sources provide on this not bypassing a guar where the unexp	g, and Try to control hazar. prior to performing mainter machine, when removing or and/or under any circulocted start-up or energiza could cause bodily harm.	nance or mstance	2. Lad	-	be needed to re	ach knife (disconnect
(Use t cause	injury. (I.e. repairs, set-	servicing or maintenance activitie	s are performe	ed where the expe	ected ener	gization, start up, or i	release of sto	ored energy may
		DANCER THE MET OF THE						
D - f	Lock	_	asp					
	re Servicing or N	Viaintenance: ersonnel that you intend to	lookout	F Apply b	oon lool	and tog on knit	fo ovvitab	
	he equipment.	ersonnei that you intend to	lockout			k, and tag on kni nclude date taker		rvice.
		equipment of tools, parts ar	nd other			t took out of serv		
	naterials.			done.				
		Supply Valve 1 disconnect s behind the valve on the wa				ease any stored e ash Supply Valve		
	pipe gallery.	beiling the valve on the wa	ii iii tiie			located on the fac		
		ch by flipping to OFF positi	on.			vitch to the CLOS		
<u>En</u>	ergy Sources:	12						
	Magnitude:	110V						
Ener	gy Isolation Device &	Disconnect switch located						
	Location:	behind valve in gallary	<u> </u>					
	Servicing or Ma erify all controls are "off"			٦				
2. C	lear machine or equipme	ent of tools, parts, or people.		Prepared by	:		D	ate:
	Make sure all guarding is lotify affected personnel	in place. that the machine or equipment wil	I be re-	Approvals	:			
е	nergized.	, ,						
6. R	e-energize or power-up	nd tags from energy isolation devic machine by returning energy isolat						
to	o normal operating positi	ion.		1				



1	6 ₀₀₀ 816							
Machin	e: Backwash Sı	upply Valve 2		Р	lant:	Water Treatment P	lant	
Area:	Filter Buildin		odated:	-	•			
Perso	onal Protective	Equipment:						
5	7				1	100 CEN		
Sa	fety Glasses	Steel Toe Shoes		loves (as ded)	Lea	ther Gloves (as needed)		
SAFE (OPERATING PR	OCEDURES:						
1.	energy sources proceed service on this management by bypassing a guar where the unexp	g, and Try to control hazar prior to performing mainten nachine, when removing or rd, and/or under any circu pected start-up or energiza ould cause bodily harm.	nance or - mstance	2. Lado swit	-	y be needed to rea	ach knife d	disconnect
(Use this	ijury. (I.e. repairs, set-	URE: servicing or maintenance activitie up, clearing parts, etc.) uipment Needed:	es are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	rred energy may
		DANCER The area served. The served area of the served area of the served area of the served area. The served area of the served area of the served area.						
Doford	Lock	•	asp					
	Servicing or N	rsonnel that you intend to	lookout	E Apply by	aca loo	k, and tag on knif	io ovvitob	
the 2. Cle ma 3. Ide	e equipment. ear the area and e aterials. entify Backwash S	equipment of tools, parts at upply Valve 2 disconnect so pehind the valve on the wa	nd other switch	*NOTE* Tag person/pers done. 6. Dissipat	shall in ons tha e or rel	nclude date taken it took out of serv ease any stored e ash Supply Valve	out of selice, and w	vork being trying to
	oe gallery. energize knife swit	ch by flipping to OFF positi	ion.			located on the fac witch to the CLOS		
<u>Ene</u>	rgy Sources:	11						
	Magnitude:	110V						
Energ	y Isolation Device & Location:	Disconnect switch located behind valve in gallary						
After S	Servicing or Ma		•					
1. Ver 2. Cle	rify all controls are "off" ar machine or equipme	or in neutral position. ent of tools, parts, or people.		Prepared by	:		D	ate:
4. Not end	ergized.	n place. that the machine or equipment wil ad tags from energy isolation device		Approvals				
6. Re-		machine by returning energy isola						



7	4 _{ma}							
Machin	ie: Backwash Si	upply Valve 3		Р	lant:	Water Treatment P	Plant	
Area:	Filter Buildin		odated:	-				
Perso	onal Protective	Equipment:						
5	7					COUNTY OF THE CO		
Sa	ifety Glasses	Steel Toe Shoes		loves (as ded)	Lea	ther Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1.	energy sources particle on this many bypassing a gual where the unexp	g, and Try to control hazar prior to performing mainten nachine, when removing or rd, and/or under any circu pected start-up or energiza ould cause bodily harm.	nance or - mstance	2. Lado swit		y be needed to rea	ach knife (disconnect
(Use thi cause ir	njury. (I.e. repairs, set-	servicing or maintenance activitie	es are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	red energy may
		DANCER DANCER						
Dofor	Lock	•	asp					
	e Servicing or N	rsonnel that you intend to	lookout	E Apply by	oon loo	k, and tag on knif	io civiltab	
2. Cl m 3. Id loc	e equipment. ear the area and e aterials. entify Backwash S	equipment of tools, parts and upply Valve 3 disconnect so seehind the valve on the war	nd other switch	*NOTE* Tag person/pers done. 6. Dissipat turn the	shall i ons tha e or rel Backw	ease any stored e lat Supply Valve located on the fac	out of selice, and we nergy by 3 motor g	vork being trying to green
4. De	energize knife swit	ch by flipping to OFF positi	ion.	7. Return (green s	witch to the CLOS	E position	.•
<u>Ene</u>	rgy Sources:	1						
	Magnitude:	110V						
Energ	y Isolation Device & Location:	Disconnect switch located behind valve in gallary						
After	Servicing or Ma							
1. Ve 2. Cle	rify all controls are "off" ear machine or equipme	or in neutral position. ent of tools, parts, or people.		Prepared by	:		D	ate:
4. No en	ergized.	n piace. that the machine or equipment wil nd tags from energy isolation devic		Approvals	:			
	-energize or power-up r normal operating position	machine by returning energy isolation.	ting devices					



1	Emm.							
Machine	e: Backwash Su	upply Valve 4		Р	lant:	Water Treatment	Plant	
Area:	Filter Buildin	g Up	dated:					
Perso	nal Protective	Equipment:						
5	7				30	Cook Cook		
Sat	ety Glasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)		
SAFE C	PERATING PR	OCEDURES:						
1.	energy sources p service on this m bypassing a gua where the unexp	g, and Try to control hazard prior to performing mainter nachine, when removing or rd, and/or under any circur pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lad	-	be needed to re	each knife	disconnect
(Use this cause inj	iury. (I.e. repairs, set-	URE: servicing or maintenance activities up, clearing parts, etc.) quipment Needed:	s are performo	ed where the expo	ected ener	gization, start up, or	release of sto	ored energy may
		DANCER The control of						
	Lock	_	asp					
	Servicing or N	Maintenance: ersonnel that you intend to	lookout	E Apply b	oon lool	c and tag on kni	fo ovvitab	
the	e equipment.	equipment of tools, parts ar		*NOTE* Tag	g shall ir	k, and tag on kni nclude date taker t took out of serv	n out of se	
3. Ide	ated to the right b	upply Valve 4 disconnect s behind the valve on the wa		turn the	Backwa	ease any stored eash Supply Valve located on the fa	4 motor	green
	e gallery. nergize knife swit	ch by flipping to OFF positi	on.			vitch to the CLOS		
Ener	rgy Sources:	11						
	Magnitude:	110V						
Energy	Isolation Device & Location:	Disconnect switch located behind valve in gallary						
After S	Servicing or Ma		•					
 Ver Clea Mak 	ify all controls are "off" ar machine or equipme se sure all guarding is i	or in neutral position. ent of tools, parts, or people.	l be re-	Prepared by Approvals				Date:
5. Ren		nd tags from energy isolation devic						
	energize or power-up r ormal operating position	machine by returning energy isolat on.	ing devices					



1	6ma 816										
Machine	e: Backwash Va	alve		Р	lant:	Water Treatment	Plant				
Area:	Filter Buildin	g Up	dated:		_						
Perso	nal Protective	Equipment:									
5	7					CENT CENT					
Saf	ety Glasses	Steel Toe Shoes	Nitrile Gl need	loves (as ded)	Leath	ner Gloves (as needed)					
SAFE C	PERATING PR	OCEDURES:									
1.	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainten nachine, when removing or rd, and/or under any circur pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lado swit	-	be needed to re	each knife	disconnect			
(Use this cause inj	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:										
Lock out/ Tag out Equipment Needed.											
	Lock		asp								
	Servicing or N			_ , , ,			· '. '				
2. Cle ma 3. Ide val	e equipment. ar the area and e terials. entify Backwash V ve on the wall in	ersonnel that you intend to quipment of tools, parts ar alve disconnect switch loca the pipe gallery. ch by flipping to OFF positi	nd other	*NOTE* Tag person/pers done. 6. Dissipat turn the located	shall in ons that e or rele Backwa on the fa	a, and tag on kni clude date taker took out of serverses ease any stored of sh Valve motor ace of the valve. witch to the CLOS	n out of so vice, and energy by green swi	ervice, work being trying to itch to open			
				7. Keturri	gi eeri sw	Attentio the CLOS	or bositio	11.			
		4	1	· 			1				
<u>Ener</u>	gy Sources:	11									
	Magnitude:	460V									
Energy	Isolation Device & Location:	Breaker panel located next to valve in gallary									
After S	ervicing or Ma		•	l							
 Veri Clea Mak 	fy all controls are "off" or machine or equipme e sure all guarding is i	or in neutral position. nt of tools, parts, or people.	l be re-	Prepared by Approvals				Date:			
ener 5. Rem	rgized. nove locks, devices, an	d tags from energy isolation devic nachine by returning energy isolat	es.								
	ormal operating position		-								



1									
Machine:	Caustic Tran	sfer Pump		F	Plant:	Water Treatment Pl	lant		
Area:	Filter Buildin		odated:	_					
Personal	Protective	Equipment:			ı				
5	D		-						
Safety	Glasses	Steel Toe Shoes	Nitrile	Gloves	F	aceshield			
SAFE OPE	RATING PR	OCEDURES:							
ene ser byp wh	ergy sources provided on this notes on this notes on the guasere the unexp	g, and Try to control hazar prior to performing mainten nachine, when removing or rd, and/or under any circulo pected start-up or energiza ould cause bodily harm.	nance or - mstance	2. Use	caution	working around o	chemicals.		
OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:									
		DANGER Was introduced to the control of the contro							
Loci	<		p (as						
Poforo So	rvising or N		eded)						
		Maintenance: ersonnel that you intend to	lockout	5 Apply b	asn lock	, and tag on disc	onnoct sw	,itch	
	iii arrected pe iipment.	ersonner that you interio to	IOCKOUT			clude date taken			
•	•	equipment of tools, parts a	nd other			took out of servi			
materia				done.					
		nsfer Pump disconnect swit	ch located			ase any stored er			
		righthand side.				Transfer Pump se			
		labeled CTP1 and CTP2. y pushing switch to OFF po	scition			eft side of the Alu OFF position.	m Pump	1.	
4. Denerg	ize breaker b	y pushing switch to OFF po	75111011.	7. Retuins	SWILCII LO	OFF position.			
				l					
Energy	Sources:	11							
	Magnitude:	460V							
Energy Isol	ation Device &	Breaker panel located in south							
After Seri	Location:	west of Filter Building					I		
		aintenance: or in neutral position.		1					
Clear ma	chine or equipme	nt of tools, parts, or people.		Prepared by	':		D	ate:	
 Notify aff energized 	i	that the machine or equipment wil		Approvals					
		nd tags from energy isolation device							
	ize or power-up ı I operating positi	machine by returning energy isolation.	ing devices						



	7.							
Mach	ine: Effluent Valv	e Filter 1		Р	lant:	Water Treatment P	Plant	
Area:			dated:	-				
Per	sonal Protective	Equipment:						
5	7					Cons Cent		
5	Safety Glasses	Steel Toe Shoes		loves (as ded)	Lea	ther Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainted nachine, when removing or rd, and/or under any circul pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Ladd swit		y be needed to rea	ach knife	disconnect
(Use t cause	injury. (I.e. repairs, set-u	servicing or maintenance activitie up, clearing parts, etc.)	s are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	ored energy may
Lock Out/Tag Out Equipment Needed:								
	Lock		asp					
	re Servicing or N			l =				
2. (c) r 3. I	the equipment. Clear the area and e materials. dentify Effluent Valv directly behind the p	ersonnel that you intend to quipment of tools, parts and we Filter 1 disconnect switcoump on the wall in the piptich by flipping to OFF position.	nd other h located e gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	g shall it ons that e or relactions Effluer cated o	ck, and tag on knif nclude date taken at took out of serv lease any stored e nt Valve Filter 1 m n the face of the v witch to the CLOS	out of se ice, and v energy by otor gree valve.	vork being trying to n switch to
<u>En</u>	ergy Sources:	11						
	Magnitude:	110V						
Ener	gy Isolation Device & Location:	Breaker panel located behind valve in gallary						
After	Servicing or Ma							
1. \\2. \(C\) 3. \(\) 4. \(\)	Verify all controls are "off" Clear machine or equipme Make sure all guarding is i Notify affected personnel tenergized.	or in neutral position. nt of tools, parts, or people. n place. that the machine or equipment wil		Prepared by Approvals				Date:
6. F		d tags from energy isolation devic machine by returning energy isolat on.						



-	7								
Mach	nine: I	Effluent Valv	e Filter 2		Р	lant:	Water Treatment F	Plant	
Area		ilter Building		odated:		_			
Per	sonal P	rotective	Equipment:						
5		9					Cook Cook		
,	Safety Gla	isses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)		
SAFE	E OPER <i>A</i>	TING PR	OCEDURES:						
	energ servic bypas where	y sources person on this means a guar of the unexperson of the une	g, and Try to control hazar prior to performing mainte nachine, when removing o rd, and/or under any circu pected start-up or energiza ould cause bodily harm.	nance or r mstance	2. Lade swit	-	be needed to re	ach knife	disconnect
(Use cause	this procedu e injury. (I.e	repairs, set-u	servicing or maintenance activitienup, clearing parts, etc.)	es are performe	ed where the expo	ected ener	gization, start up, or i	release of sto	ored energy may
Lock Out/Tag Out Equipment Needed:									
	Lock			asp					
			Maintenance:	114				C!+- -	
2.	the equip Clear the	ment. area and e	ersonnel that you intend to quipment of tools, parts a		*NOTE* Tag	g shall ir	k, and tag on kni Iclude date taker It took out of serv	out of se	
 and equipment of tools, parts and other materials. Jidentify Effluent Valve Filter 2 disconnect switch located directly behind the pump on the wall in the pipe gallery Denergize knife switch by flipping to OFF position. 				e gallery.	turn the	e Effluen cated on	ease any stored e t Valve Filter 2 m the face of the v vitch to the CLOS	notor gree valve.	n switch to
				_					
<u>Er</u>	nergy Sc	urces:	1						
		Magnitude:	110V						
Ene	rgy Isolatio	on Device & Location:	Breaker panel located behind valve in gallary						
Afte	r Servic		intenance:						
1. 2. 6 3. 1 4. 1	Verify all cor Clear machir Make sure a Notify affect energized.	ntrols are "off" ne or equipme I guarding is in ed personnel t	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment wi		Prepared by Approvals				Date:
6. 1	Re-energize		d tags from energy isolation devi- nachine by returning energy isola on.						



	7.							
Mach	ine: Effluent Valv	re Filter 3		Р	lant:	Water Treatment P	Plant	
Area:			dated:	-				
Pers	sonal Protective	Equipment:						
5	7					Cons Cent		
S	Safety Glasses	Steel Toe Shoes		loves (as ded)	Lea	ther Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainter nachine, when removing or rd, and/or under any circur pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lado swit		y be needed to rea	ach knife	disconnect
(Use t cause	injury. (I.e. repairs, set-	servicing or maintenance activitie up, clearing parts, etc.)	s are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	ored energy may
Lock Out/Tag Out Equipment Needed:								
	Lock		asp					
	re Servicing or N							
2. C r 3. I	he equipment. Clear the area and e materials. dentify Effluent Valv directly behind the p	ersonnel that you intend to equipment of tools, parts are Filter 3 disconnect switcomp on the wall in the pipch by flipping to OFF positi	nd other h located e gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	shall i ons that e or rel Effluer cated o	ck, and tag on knif nclude date taken at took out of serv lease any stored e nt Valve Filter 3 m n the face of the v witch to the CLOS	out of se ice, and v energy by otor gree valve.	vork being trying to n switch to
<u>En</u>	ergy Sources:	11						
	Magnitude:	110V						
Ener	gy Isolation Device & Location:	Breaker panel located behind valve in gallary						
After	Servicing or Ma							
1. \\\2. \C \\\3. \\\4. \\\6	Verify all controls are "off" Clear machine or equipme Make sure all guarding is i Notify affected personnel te Penergized.	or in neutral position. Int of tools, parts, or people.		Prepared by Approvals				Date:
6. F		machine by returning energy isolat						



-	9								
Mack	nine:	Effluent Valv	e Filter 4		Р	lant:	Water Treatment F	Plant	
Area	_	Filter Building		odated:					
Per	sonal I	Protective	Equipment:			•			
5		D				30	CENTRAL COLOR		
	Safety G	lasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)		
SAFI	E OPER	ATING PR	OCEDURES:						
	ener serv bypa whe	gy sources place on this massing a guar	g, and Try to control hazar prior to performing mainte nachine, when removing o rd, and/or under any circu pected start-up or energiza ould cause bodily harm.	nance or r mstance	2. Lado swit	-	be needed to re	ach knife	disconnect
(Use cause	this proced e injury. (I.	e. repairs, set-u	servicing or maintenance activitienup, clearing parts, etc.)	es are performe	ed where the expe	ected ener	gization, start up, or i	release of sto	ored energy may
Lock Out/Tag Out Equipment Needed:									
D - C -	Lock			asp					
			Maintenance:	114	A lo - lo			£!4-1-	
2.	the equi Clear the	pment. e area and e	ersonnel that you intend to quipment of tools, parts a		*NOTE* Tag	g shall ir	k, and tag on knii nclude date taker t took out of serv	n out of se	
 materials. Identify Effluent Valve Filter 4 disconnect switch located directly behind the pump on the wall in the pipe gallery Denergize knife switch by flipping to OFF position. 					turn the	e Effluen cated on	ease any stored e t Valve Filter 4 m the face of the v vitch to the CLOS	notor gree valve.	n switch to
			4	1					
<u>Er</u>	nergy S	ources:	11						
		Magnitude:	110V						
Ene	rgy Isolat	ion Device & Location:	Breaker panel located behind valve in gallary						
Afte	r Servi		intenance:						
1. 2. 3. 4.	Verify all controlled Clear mach Make sure Notify afferenergized.	ontrols are "off" nine or equipme all guarding is i cted personnel t	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment wi		Prepared by Approvals			<u>[</u>	Date:
6.	Re-energiz		d tags from energy isolation devi- nachine by returning energy isola on.						



Gas. SH								
Machine:	Flocculator 1			Р	lant:	Water Treatment F	Plant	
Area:	Sediment Ta	nks U	pdated:		_			
Personal	Protective	Equipment:						
5	D		- Villa		BN.	10 Jan 10		
Safety	Glasses	Steel Toe Shoes		loves (as ded)		ner Gloves (as needed)		
SAFE OPE	RATING PR	OCEDURES:						
1. Alw ene ser byr who	rays Lock, Ταφ ergy sources μ vice on this m passing a gual ere the unexp	g, and Try to control haza prior to performing mainten achine, when removing cord, and/or under any circupected start-up or energizould cause bodily harm.	enance or or umstance			ine has no Lock ut at this point.	-Out point	and can only
(Use this proceedings) (Use this proceedings) (Use this proceed)	I.e. repairs, set-u	JRE: servicing or maintenance activition, clearing parts, etc.) uipment Needed:	ies are performe	ed where the expe	ected energ	gization, start up, or i	release of sto	ored energy may
DANCE THE RESERVE OF THE PROPERTY OF THE PROPE	E							
Tag								
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify breaker 2 on the main breaker box located on the east side of the Sediment Tanks. Denergize breaker switch by flipping to OFF position. 				person/pers done. 6. Dissipat turn the breaker	g shall income shall income that the or rele should box, to	aker switch. clude date taker took out of serv ase any stored e itor 1 switch, loc the hand position the OFF position	vice, and we energy by cated to le n and pusl	vork being trying to ft of
							1	
<u>Energy</u>	Sources:	11						
	Magnitude:	460V						
Energy Isola	ation Device & Location:	Breaker box located on east side of Sediment Tanks						
After Serv		intenance:						
 Verify all Clear ma Make sur Notify aff energized 	controls are "off" chine or equipme e all guarding is i ected personnel t l.	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment w		Prepared by Approvals				ate:
6. Re-energ		d tags from energy isolation dev nachine by returning energy isolo on.						



7								
Machine:	Flocculator 2			Р	lant:	Water Treatment F	Plant	
Area:	Sediment Ta	nks U	lpdated:		_			
Persona	I Protective	Equipment:						
	D		- Villa		#K	10 Jan 10		
Safety	Glasses	Steel Toe Shoes		loves (as ded)	Leath	ner Gloves (as needed)		
SAFE OPE	ERATING PR	OCEDURES:						
1. Al er se by wh	ways Lock, Tag nergy sources prvice on this manager reassing a guater the unexp	g, and Try to control haza orior to performing mainten achine, when removing ord, and/or under any circupected start-up or energizould cause bodily harm.	enance or or umstance			ine has no Lock ut at this point.	-Out point	and can only
(Use this pro cause injury.	(I.e. repairs, set-	URE: servicing or maintenance activiti up, clearing parts, etc.) upipment Needed:	es are performe	ed where the expo	ected energ	gization, start up, or i	release of sto	ored energy may
CAN The second of the second	GEX No cont. In No cont. In No cont. In No.							
Tag	_							
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify breaker 10 on the main breaker box located on the east side of the Sediment Tanks. Denergize breaker switch by flipping to OFF position. 				person/pers done. 6. Dissipat turn the breaker	g shall in sons that se or rele se Floccula box, to	aker switch. clude date taker took out of serv ase any stored e itor 2 switch, loo the hand position the OFF position	vice, and we energy by cated to le n and pusl	vork being trying to ft of
			$\overline{}$				1	
<u>Energy</u>	Sources:	11						
	Magnitude:	460V						
Energy Iso	lation Device & Location:	Breaker box located on east side of Sediment Tanks						
After Ser	vicing or Ma							
 Verify a Clear m Make su Notify a energize 	II controls are "off" achine or equipme are all guarding is i ffected personnel t ed.	or in neutral position. Int of tools, parts, or people. In place. Ithat the machine or equipment w		Prepared by Approvals				Pate:
6. Re-ener		nd tags from energy isolation dev machine by returning energy isola on.						



Com. 1919								
Machine:	Flocculator 3	}		Р	lant:	Water Treatment F	Plant	
Area:	Sediment Ta	nks U	pdated:		_			
Persona	I Protective	Equipment:						
	D				BN.	Control Control		
Safety	/ Glasses	Steel Toe Shoes		loves (as ded)		ner Gloves (as needed)		
SAFE OPI	ERATING PR	OCEDURES:						
1. Al er se by w	ways Lock, Tag nergy sources pervice on this many passing a gua here the unexp	g, and Try to control haza orior to performing mainten achine, when removing ord, and/or under any circupected start-up or energizould cause bodily harm.	enance or or umstance			ine has no Lock ut at this point.	-Out point	and can only
(Use this pro cause injury	(I.e. repairs, set-	URE: servicing or maintenance activiti up, clearing parts, etc.) upipment Needed:	es are performe	ed where the expo	ected energ	gization, start up, or r	release of sto	ored energy may
DAA See in 150 See in	VICES Research Research							
Ta	•	No. Sanda a sana a sana						
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify breaker 16 on the main breaker box located on the east side of the Sediment Tanks. Denergize breaker switch by flipping to OFF position. 				person/pers done. 6. Dissipat turn the breaker	g shall income shall income that the or rele should box, to	aker switch. clude date taken took out of serv ase any stored e itor 3 switch, loc the hand position the OFF position	rice, and we energy by cated to le n and pusl	vork being trying to ft of
							1	
<u>Energy</u>	Sources:	11						
	Magnitude:	460V						
Energy Iso	olation Device & Location:	Breaker box located on east side of Sediment Tanks						
After Ser	vicing or Ma							
 Verify a Clear m Make st Notify a energize 	III controls are "off" achine or equipme are all guarding is i affected personnel t ed.	or in neutral position. Int of tools, parts, or people. In place. Ithat the machine or equipment w		Prepared by Approvals				Pate:
6. Re-ener		nd tags from energy isolation dev machine by returning energy isola on.						



7 67											
Machine:	Flocculator 4			Р	lant:	Water Treatment F	Plant				
Area:	Sediment Ta	nks U	pdated:		_						
Persona	I Protective	Equipment:									
	D				#K	Control Control					
Safety	Glasses	Steel Toe Shoes		loves (as ded)	Leath	ner Gloves (as needed)					
SAFE OPI	ERATING PR	OCEDURES:									
1. Al er se by wl	ways Lock, Tag nergy sources pervice on this many passing a gua nere the unexp	g, and Try to control hazal prior to performing mainten nachine, when removing o rd, and/or under any circu pected start-up or energiza ould cause bodily harm.	enance or r imstance			ine has no Lock ut at this point.	-Out point	and can only			
(Use this pro cause injury.	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:										
DAA was 1000 Una was 1000 in w	VICES										
Ta	•										
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify breaker 21 on the main breaker box located on the east side of the Sediment Tanks. Denergize breaker switch by flipping to OFF position. 				person/pers done. 6. Dissipat turn the breaker	g shall in sons that se or rele se Floccula box, to	aker switch. clude date taken took out of serv ase any stored e itor 4 switch, loc the hand position the OFF position	rice, and we energy by eated to le n and pusl	vork being trying to ft of			
<u>Energy</u>	Sources:	M									
	Magnitude:	460V									
Energy Iso	olation Device & Location:	Breaker box located on east side of Sediment Tanks									
After Ser	vicing or Ma										
 Verify a Clear m Make su Notify a energize 	Il controls are "off" achine or equipme are all guarding is i ffected personnel t ed.	or in neutral position. nt of tools, parts, or people. n place. that the machine or equipment w		Prepared by Approvals				Date:			
6. Re-ener		id tags from energy isolation devi machine by returning energy isola on.									



devices to normal operating position.

Con.									
Machine:	Floride Pum	р		Р	lant:	Water Treatment F	Plant		
Area:	Filter Buildin		Jpdated:			<u> </u>			
Persona	Protective	e Equipment:						_	
5	D		F						
Safety	Glasses	Steel Toe Shoes	Nitrile	Gloves	F	aceshield			
SAFE OPE	RATING P	ROCEDURES:							
1. Alw ene ser byr wh	vays Lock, Tagergy sources point on this notes and the contractions and the contractions are the unexperse the unexperse the contractions.	g, and Try to control haze orior to performing maint nachine, when removing rd, and/or under any circ pected start-up or energiz ould cause bodily harm.	enance or or umstance	2. Use	caution	working around F	luoride.		
(Use this pro energy may o	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:								
		DANCER The area was to the control of the control							
Loc	K		isp (as	Single F					
Refore Se	rvicina or		eded)	Break	er				
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Valve left of pump labeled Fluoride, must be turned clock-wise 90 degrees to shut OFF. Identify Fluoride Pump breaker switch, labeled 30, in PA breaker panel located in southwest of Filter Building. Denergize breaker by flipping switch to OFF position. Apply single pole breaker cover, lock, and tag on breaker. 				person/being do 6. Dissipat turn the of pump 7. Return I	persons fone. Se or release Fluoride O.	Il include date tal that took out of s ase any stored er Pump knife swite tch to OFF positio	ervice, ar nergy by t ch ON, lo	nd work trying to cated left	
F	Caaa	. 1/							
<u>Energy</u>	Sources: Magnitude:	110V							
Energy Iso	olation Device	Breaker panel located in							
After Son	& Location:	south west of Filter Building laintenance:							
 Verify al Clear ma Make su Notify af energize 	l controls are "o achine or equipn re all guarding is fected personne d.	ff" or in neutral position. nent of tools, parts, or people.	ent will be re-	Prepared by Approvals			D;	ate:	
		machine by returning energy							



→									
Machine:	High Service	•		P	lant: _	Water Treatment	Plant		
Area: Personal		e Pump Room e Equipment:	Updated:			<u></u>			
	D	Equipment.		EAD 1/	BAS STATE OF THE S	20 1000			
Safety	Glasses	Steel Toe Shoes		Protection eeded)		ner Gloves (as needed)			
SAFF OPF	RATING P	ROCEDURES:							
1. Alw ene ser byp who	rays Lock, Tag ergy sources p vice on this n passing a gua ere the unexp	g, and Try to control had be prior to performing main nachine, when removing rd, and/or under any cipected start-up or energould cause bodily harm	ntenance or g or rcumstance gization of	 Use caution tightening or loosening pump spindle due to spindle must be running. *(Spindle components may be HOT) Step ladder may be needed to reach disconnect switch above pump. 					
(Use this proceed on energy may of	Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored nergy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:								
4 Loc	KS	Tag	Hasp	3 Valve C	overs				
 4 Locks Tag Hasp Before Servicing or Maintenance: Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify High Service Pump 1 disconnect switch in the High Service Pump Room located directly above Pump 1 on the west side. Denergize knife switch by turning to OFF position. Apply hasp, lock, and tag on knife switch. *NOTE* Tag shall include date taken out of service, person/persons that took out of service, and work being done. 				7. Apply va apply lo 8. Dissipat push ST	alve cove cks to ea e or rele ART but box loca	ase any stored e ton on the High S ited along the we	d 1C valve nergy by Service Pu	es and then trying to	
Energy	Sources:								
	Magnitude:	460V							
Energy Iso	lation Device	Breaker box located abo	ve						
After Serv	& Location:	Pump 1 on west side							
 Verify all controls are "off" or in neutral position. Clear machine or equipment of tools, parts, or people. Make sure all guarding is in place. Notify affected personnel that the machine or equipment will be reenergized. Remove locks, devices, and tags from energy isolation devices. 		Prepared by Approvals			D:	ate:			

6. Re-energize or power-up machine by returning energy isolating



→									
Machine:	High Servic	e Pump 2			Р	Plant:	Water Treatment	Plant	
Area:	High Servic	e Pump Room	Up	dated:		-			
Personal	Protectiv	e Equipment:			1		CENT CENT		
Safety (Glasses	Steel Toe Sho	es		Protection eeded)	Leat	ther Gloves (as needed)		
SAFF OPF	RATING P	ROCEDURES:		•	,		,	1	
1. Alw ene serv byp whe	ays Lock, Ta rgy sources vice on this r assing a gua ere the unex	g, and Try to contr prior to performing nachine, when rem ird, and/or under a pected start-up or e could cause bodily h	mainter oving or ny circur energizat	nance or mstance	due com 3. Step	to spin nponent p ladder	n tightening or lood dle must be running s may be HOT) r may be needed t ve pump.	ng. *(Spir	ndle
(Use this prod energy may c	ause injury. (1.	OURE: ny servicing or mainten e. repairs, set-up, clea Equipment Nee	ring parts,		formed where th	he expect	ted energization, start	up, or rele	ase of stored
		DANGER THE MANUAL THE PROPERTY OF THE PROPERT			0				
4 Lock		Tag Maintananca:	Ha	isp	3 Valve C	overs			
 Notify a the equ Clear the materia Identify High Semotor of Denerging Apply head to the material and the ma	Il affected point in affected point in a real and of its in a real and of its in a real and its in a r	Maintenance: ersonnel that you in equipment of tools, e Pump 2 disconne Room located directide. etch by turning to Ol ed tag on knife swit eclude date taken of etch took out of service	parts ar ct switch tly above FF position ch. ut of ser	in the Pump 2 on.	7. Apply va apply lo 8. Dissipat push ST	alve covers to exercise to exercise to exercise the contract of the contract o	ease any stored e atton on the High S cated along the we	d 2C valve nergy by Service Pu	es and then trying to
Energy S	Sources:	11							
	Magnitude:	460V							
Energy Iso	lation Device & Location:	Breaker box located Pump 2 on west							
1. Verify all	vicing or M controls are "c	Maintenance: off" or in neutral position	n.		Dropored by				ato:
 Make sur Notify aff energized 	e all guarding i ected personne d.	ment of tools, parts, or s in place. el that the machine or o and tags from energy i	equipment		Prepared by Approvals			D	ate:

6. Re-energize or power-up machine by returning energy isolating



Machine: High Service Pump 3	
Personal Protective Equipment: Safety Glasses Steel Toe Shoes Hearing Protection (as needed) SAFE OPERATING PROCEDURES:	
Safety Glasses Steel Toe Shoes Hearing Protection (as needed) SAFE OPERATING PROCEDURES:	
SAFE OPERATING PROCEDURES: (as needed) needed)	
energy sources prior to performing maintenance or service on this machine, when removing or bypassing a guard, and/or under any circumstance where the unexpected start-up or energization of the equipment could cause bodily harm. 2. See data in tightering or lossering perdue to spindle must be running. *(Spin components may be HOT) 3. Step ladder may be needed to reach distribution of switch above pump.	indle
LOCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or releasening may cause injury. (I.e. repairs, set-up, clearing parts, etc.) Lock Out/Tag Out Equipment Needed:	ease of stored
A local and a loca	
4 Locks Tag Hasp 3 Valve Covers Before Servicing or Maintenance:	
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify High Service Pump 3 disconnect switch in the High Service Pump Room located above Pump 2 on the east side. Denergize knife switch by turning to OFF position. Apply hasp, lock, and tag on knife switch. *NOTE* Tag shall include date taken out of service, person/persons that took out of service, and work being done. Turn 3B, 3B, and 3C valves clockwise unting to Apply valve covers to 3A, 3B, and 3C valves clockwise unting apply locks to each. Dissipate or release any stored energy by push START button on the High Service Pubreaker box located along the north wall. Push STOP button. Push STOP button. Push STOP button. Push STOP button. 	res and then trying to
Energy Sources:	
Magnitude: 460V	
Energy Isolation Device Breaker box located above	
& Location: Pump 2 on east side After Servicing or Maintenance:	
Verify all controls are "off" or in neutral position.	Date:

6. Re-energize or power-up machine by returning energy isolating



- V -								
Machine:	High Servic			P	Plant:	Water Treatment	Plant	
Area:		e Pump Room re Equipment:	_ Updated:			<u></u>		
	D			EAD 1/		19 1000		
Safety	/ Glasses	Steel Toe Shoes		Protection eeded)		ner Gloves (as needed)		
SAFF OP	FRATING P	ROCEDURES:						
1. A ei se by w	ways Lock, Ta nergy sources ervice on this r ypassing a gua here the unex	g, and Try to control h. prior to performing ma machine, when removir and, and/or under any coected start-up or ener could cause bodily harn	intenance or ng or circumstance rgization of	due com 3. Ste	to spind	tightening or loos le must be running may be HOT) may be needed to pump.	ng. *(Spir	ndle
(Use this preenergy may	/ cause injury. (I.	DURE: ny servicing or maintenance. repairs, set-up, clearing Equipment Needec	parts, etc.)	formed where the	he expecte	d energization, start	up, or relea	ase of stored
	5	Tan		2 Value 0				
4 Lo Before S		Tag Maintenance:	Hasp	3 Valve C	overs			
 Notify the ed Clear mater Identify west: Dener Apply *NOT 	r all affected property all affected property. The area and exists. If y High Service Pump side. If y Expension and expension are the sum of th	ersonnel that you intent equipment of tools, par e Pump 4 disconnect so Room located above Pu tch by turning to OFF p and tag on knife switch. Include date taken out of took out of service, an	its and other witch in the imp 2 on the osition.	7. Apply variable apply lo 8. Dissipat push ST	alve cove teks to ea te or rele TART but box loca	ase any stored e ton on the High S ated along the no	d 4C valve nergy by t Service Pu	es and then trying to
Fneray	/ Sources:							
Energy	Magnitude:	460V						
Energy Is	solation Device		ove					
	& Location:	Pump 2 on west side Naintenance:						
 Verify Clear r Make s Notify energize 	all controls are "c nachine or equipr sure all guarding affected personne zed.	off" or in neutral position. ment of tools, parts, or peol is in place. It is that the machine or equip	oment will be re-	Prepared by Approvals	·			ate:
Remov	e locks, devices,	and tags from energy isolat	tion devices.	1				

6. Re-energize or power-up machine by returning energy isolating



	7.									
Mach	ine: Influent Valv	re 1		Р	lant:	Water Treatment P	lant			
Area:			dated:							
Pers	sonal Protective	Equipment:								
5	1				# 1	CENT CENT				
5	Safety Glasses	Steel Toe Shoes	Nitrile G nee	loves (as ded)	Leat	her Gloves (as needed)				
	OPERATING PR									
1	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainten nachine, when removing or rd, and/or under any circun pected start-up or energiza ould cause bodily harm.	nance or mstance							
(Use t cause	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:									
		CANCER The recent mans of the control of the contr								
	Lock		asp							
	re Servicing or N			I =						
2. (c) r 3. I	the equipment. Clear the area and e materials. dentify Influent Valv directly behind the p	ersonnel that you intend to quipment of tools, parts ar we 1 disconnect switch loca nump on the wall. ch by flipping to OFF positi	nd other ted	*NOTE* Tag person/pers done. 6. Dissipat turn the located	g shall in sons that e or rele Influen on the f	k, and tag on knif nclude date taken t took out of serv ease any stored e at Valve 1 motor of face of the valve. witch to the CLOS	out of se ice, and v nergy by green swit	vork being trying to cch to open		
			1							
<u>En</u>	ergy Sources:	11								
	Magnitude:	110V								
Ener	gy Isolation Device & Location:	Breaker panel located behind valve on wall								
	Servicing or Ma			_						
2. 0 3. N 4. N 6	Make sure all guarding is i Notify affected personnel t energized. Remove locks, devices, an	nt of tools, parts, or people. n place. hat the machine or equipment wil d tags from energy isolation devic	es.	Prepared by Approvals				Date:		
	Re-energize or power-up r o normal operating position	machine by returning energy isolat on.	ing devices							



814										
Machine:	Influent Valv	re 2		Р	Plant:	Water Treatment P	lant			
Area:	Filter Buildin		dated:							
Personal	Protective	Equipment:								
	D					99 CEN				
Safety	Glasses	Steel Toe Shoes	Nitrile Gl need	7	Lea	ther Gloves (as needed)				
		OCEDURES:								
ene ser byp who	ergy sources provided on this not assing a guater the unexp	g, and Try to control hazard prior to performing mainter nachine, when removing or rd, and/or under any circur pected start-up or energizat ould cause bodily harm.	nance or nstance							
(Use this proceed cause injury. (OCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may ause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:									
		DANGER With State and With State an								
Lock		•	isp							
 Notify a the equ Clear the materia Identify directly 	all affected pendipment. The area and ends. The Influent Value behind the pendipment value behind the pendipment value behind the pendipment value	Maintenance: ersonnel that you intend to quipment of tools, parts ar we 2 disconnect switch loca bump on the wall. ch by flipping to OFF position	nd other ted	*NOTE* Tag person/pers done. 6. Dissipat turn the located	g shall i sons tha te or rel e Influer on the	k, and tag on knif nclude date taken it took out of serv ease any stored e nt Valve 2 motor of face of the valve. witch to the CLOS	out of so ice, and nergy by green swi	ervice, work being trying to ttch to open		
Energy	Sources:	41								
	Magnitude:	110V								
Energy Isola	ation Device & Location:	Breaker panel located behind valve on wall								
		intenance:								
 Clear ma Make sur Notify aff energized Remove I Re-energ 	chine or equipme e all guarding is i ected personnel i l. ocks, devices, ar	that the machine or equipment will d tags from energy isolation device machine by returning energy isolat	es.	Prepared by Approvals				Date:		



-	%									
Mach	nine:	Influent Valv	re 3		P	Plant:	Water Treatment P	lant		
Area		Filter Buildin		Jpdated:	, · ·					
Per	sonal	Protective	Equipment:			r				
5		D		Total Control of the		#W	TO LONG THE PARTY OF THE PARTY			
	Safety G	Slasses	Steel Toe Shoes		loves (as ded)	Leath	ner Gloves (as needed)			
SAFI	E OPER	ATING PR	OCEDURES:							
1. Always Lock, Tag, and Try to control hazardous energy sources prior to performing maintenance or service on this machine, when removing or bypassing a guard, and/or under any circumstance where the unexpected start-up or energization of the equipment could cause bodily harm.										
(Use cause	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:									
DANGER We may have a series We may have a										
D - £ -	Lock			Hasp						
			Maintenance:	a laakaut	E Apply b	aca laak	and tag on knif	o ovvitob		
2.	the equi Clear th material	pment. e area and e s.	ersonnel that you intend to	and other	*NOTE* Tag person/pers done.	g shall in sons that	, and tag on knife clude date taken took out of servi	out of selice, and w	ork being	
	directly	behind the p	ve 3 disconnect switch loo nump on the wall. ch by flipping to OFF posi		turn the located	Influent	ase any stored end to Valve 3 motor gode ace of the valve. Witch to the CLOSI	reen swit	ch to open	
			4			Т		1		
<u>Er</u>	nergy S	Sources:	11							
		Magnitude:	110V							
Ene	rgy Isola	tion Device & Location:	Breaker panel located behind valve on wall							
			intenance:		-					
2. 3. 4.	Clear macl Make sure Notify affe	nine or equipme all guarding is i	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment v	vill be re-	Prepared by Approvals			D	vate:	
5.			d tags from energy isolation dev							
		operating position		amy acvices						



	7 -									
Mach	ine: Influent Valv	re 4		Р	lant:	Water Treatment P	Plant			
Area:			dated:							
Pers	sonal Protective	Equipment:								
5	7				# 1	CENT CENT				
S	Safety Glasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)				
	OPERATING PR									
1	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazard prior to performing mainten nachine, when removing or rd, and/or under any circun pected start-up or energiza ould cause bodily harm.	nance or mstance							
(Use t cause	OCKOUT PROCEDURE: (Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) ock Out/Tag Out Equipment Needed:									
		CANCER The recent mans of the control of the contr								
	Lock		asp							
	re Servicing or N			T						
2. C r 3. I	he equipment. Clear the area and e naterials. dentify Influent Valv lirectly behind the p	ersonnel that you intend to quipment of tools, parts ar we 4 disconnect switch loca nump on the wall. ch by flipping to OFF positi	nd other ted	*NOTE* Tag person/pers done. 6. Dissipat turn the located	g shall in sons that e or rele Influen on the f	c, and tag on knif nclude date taken t took out of serv ease any stored e t Valve 4 motor of ace of the valve. witch to the CLOS	out of se lice, and v energy by green swit	vork being trying to tch to open		
		4.4								
<u>En</u>	ergy Sources:	1								
	Magnitude:	110V								
Ener	gy Isolation Device & Location:	Breaker panel located behind valve on wall								
After	Servicing or Ma									
1. V 2. C 3. N 4. N	rerify all controls are "off" clear machine or equipme Make sure all guarding is i lotify affected personnel t nergized.	or in neutral position. nt of tools, parts, or people.		Prepared by Approvals				Date:		
	e-energize or power-up r o normal operating position	machine by returning energy isolat on.	ing devices							



V			3							
Machine:	Post-Caustic			P	lant: _\	Water Treatment Pl	ant			
Area:	Filter Building	յ Equipment։	pdated:			<u> </u>				
Fersonal	D	Equipment.	-							
Safety	Glasses	Rubber Steel Toe Shoes	Nitrile	Gloves	F	aceshield				
SAFF ODFI	DATING PR	OCEDURES:								
1. Alw ene ser byp whe	ays Lock, Tag rgy sources p vice on this m assing a guar ere the unexp	g, and Try to control hazal prior to performing mainten pachine, when removing o rd, and/or under any circul ected start-up or energizal puld cause bodily harm.	enance or r imstance	2. Use	caution v	working around c	hemicals			
(Use this proce cause injury. (OCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may ause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:									
		DANCER Was registered by the control of the contro								
Lock		nee	sp (as eded)	Single F Break						
		laintenance: rsonnel that you intend to	. la alcacet	LE Annh. of		handler on the	مماد معما	too oo		
the equ 2. Clear th materia 3. Identify in PA bi Building	ipment. ne area and ends. r Post-Caustic reaker panel I g. If working or labeled POSturning clock opening POS	quipment of tools, parts a Pump breaker switch, lak ocated in southwest of Fil pump diaphragm close v TV, POS1, and POS2 OFF, wise and release pressur	peled 34, ter valves , by	breaker *NOTE* Tag person/pers done. 6. Dissipat turn the on wall 7. Return I	shall ind sons that e or releat Post-Car behind th	ch to OFF position	out of se ce, and w nergy by switch O	rvice, vork being trying to N, located		
Energy	Sources:	11								
	Magnitude:	110V								
Energy Isola	ation Device & Location:	Breaker panel located in south west of Filter Building								
	icing or Ma	intenance:	1	<u> </u> 7			1			
 Clear mad Make surd Notify afferency in the energized Remove I Reverse I 	chine or equipment e all guarding is in ected personnel t cocks, devices, an ockout steps and	or in neutral position. It of tools, parts, or people. In place. In place. In the machine or equipment will drags from energy isolation devire-energize or power-up machin normal operating position.	ces.	Prepared by Approvals				Pate:		



7	*									
Macl	hine:	Pre-Caustic			F	Plant:	Water Treatment F	Plant		
Area		Filter Buildin	· ·	_ Updated:						
Per	rsonal	Protective	e Equipment:			<u> </u>				
5		D								
(Safety (Glasses	Steel Toe Shoes	Nitrile	Gloves	F	aceshield			
			ROCEDURES:		Use caution working around chemicals.					
	ene serv byp whe	rgy sources price on this massing a guar ere the unexp	g, and Try to control horior to performing manachine, when removing, and/or under any dected start-up or enerould cause bodily harr	nintenance or ng or circumstance rgization of	2. Use	caution	working around c	nemicais	•	
(Use ener	OCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored nergy may cause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:									
			DANCER WANTE TO THE TOTAL							
	Lock	(2 Tags	Hasp (as	Single I					
Dofo	oro So	rvicina or	Maintonanco	needed)	Break	er				
 Notify all affected personnel that you intend to lockout the equipment. Clear the area and equipment of tools, parts and other materials. Identify Pre-Caustic Pump breaker switch, labeled 32, in PA breaker panel located in southwest of Filter Building. If working on pump diaphragm close valves labeled PRE-TV, PRE1, and PRE2 OFF, by turning clock-wise and release pressure by opening PRE3 valve. Denergize breaker by flipping switch to OFF position. 				labeled 32, in filter Building. se valves OFF, by turning opening	breaker *NOTE* Tag person/pers done. 6. Dissipat turn the on wall 7. Return	g shall ind cons that se or relead Pre-Cau behind th	e breaker cover, lo clude date taken o took out of servic ase any stored er astic Pump knife s ne pump. tch to OFF positio	out of ser ce, and w nergy by witch ON	rvice, rork being trying to , located	
<u>En</u>	ergy (Sources:	M							
		Magnitude:	110V							
Energy I solation Device Breaker panel located in south west of Filter Building										
		ricing or M	aintenance:		_					
1. 2. 3. 4. 5. 6.	Verify all Clear ma Make sur Notify aff energized Remove	controls are "of chine or equipm e all guarding is ected personne d. ocks, devices, a ockout steps ar	f" or in neutral position. ent of tools, parts, or peo	oment will be re- tion devices.	Prepared by Approvals				ate:	



	7									
Machi	ne: Raw Water V	/alve		Р	lant:	Water Treatment F	Plant			
Area:	Filter Buildin		dated:		_					
Pers	onal Protective	Equipment:								
5	7				# 13 M	CENT CENT				
S	afety Glasses	Steel Toe Shoes		loves (as ded)	Leat	her Gloves (as needed)				
SAFE	OPERATING PR	OCEDURES:								
1	energy sources p service on this n bypassing a gua where the unexp	g, and Try to control hazar prior to performing mainted nachine, when removing or rd, and/or under any circulo pected start-up or energiza ould cause bodily harm.	nance or mstance	2. Lado swit	-	be needed to re	ach knife	disconnect		
(Use the cause i	OCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may ause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:									
		DANCER The arrow transport Conduction arrow of the conduction of								
D - f	Lock		asp							
	e Servicing or N	vaintenance: ersonnel that you intend to	lockout	E Apply b	ocn lock	k and tag on knit	fo cwitch			
	ottiy ali affected pe ne equipment.	ersonner that you intend to	lockout			k, and tag on knit nclude date taker		rvice		
		equipment of tools, parts ar	nd other			t took out of serv				
	naterials.			done.				_		
	_	Valve disconnect switch loo	ated	·		ease any stored e	05 5	3 0		
		wall in the pipe gallery.				ater Valve motor	green sw	itch to open		
4. D	energize knife swit	ch by flipping to OFF positi	on.			face of the valve.	·C maaltlam	_		
				7. Return (green sv	vitch to the CLOS	e positioi	1.		
							1			
Ene	ergy Sources:	1								
	Magnitude:	460V								
Energ	gy Isolation Device &	Disconnect switch located								
Δftor	Servicing or Ma	behind valve in gallary								
	erify all controls are "off"			7						
2. CI	ear machine or equipme	nt of tools, parts, or people.		Prepared by	:			Date:		
4. N	ake sure all guarding is i otify affected personnel t nergized.	in place. that the machine or equipment wil	l be re-	Approvals	:					
		nd tags from energy isolation device	es.							
Re-energize or power-up machine by returning energy isolating devices to normal operating position.										



Canal S and									
Machine:	Sediment Dr	ive 1		Р	lant:	Water Treatment F	Plant		
Area:	Sediment Ta		pdated:		_				
Persona	I Protective	Equipment:					_		
5	D				BN.	Comp.			
Safety	Glasses	Steel Toe Shoes		loves (as ded)		ner Gloves (as needed)			
SAFE OPI	ERATING PR	OCEDURES:							
1. Al er se by w	ways Lock, Tag nergy sources pervice on this many passing a gua here the unexp	g, and Try to control hazal prior to performing mainten nachine, when removing ord, and/or under any circu pected start-up or energizal ould cause bodily harm.	enance or r imstance			iine has no Lock ut at this point.	-Out point	and can only	
(Use this pro cause injury	DCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may ause injury. (I.e. repairs, set-up, clearing parts, etc.) Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may expected.								
Enter the Control of	VICES Records III Williams III Williams III Williams III								
Ta	_								
		Maintenance:							
the ed 2. Clear mater 3. Identi	quipment. the area and e ials. fy breaker 9 or ast side of the s	ersonnel that you intend to equipment of tools, parts a in the main breaker box loo Sediment Tanks. witch by flipping to OFF po	and other	person/pers done. 6. Dissipat turn the breaker	g shall income shall income that the or rele shall box, to	aker switch. clude date taker took out of serv ase any stored e nt Drive 1 switch the hand position the OFF position	rice, and venergy by n, located n and pus	vork being trying to to left of	
<u>Energy</u>	Sources:	1							
	Magnitude:	460V							
Energy Iso	olation Device & Location:	Breaker box located on east side of Sediment Tanks							
After Ser	vicing or Ma	•							
 Verify a Clear m Make st Notify a energiz Remove 	Il controls are "off" achine or equipme are all guarding is i ffected personnel t ed. e locks, devices, an	or in neutral position. Int of tools, parts, or people. In place. Ithat the machine or equipment wild tags from energy isolation devi	ces.	Prepared by Approvals				Pate:	
	rgize or power-up r nal operating position	machine by returning energy isola on.	ung aevices						



7 4 4 1 1 1 1									
Machine:	Sediment Dr				P	lant: _\	Nater Treatment P	lant	
Area:	Sediment Ta		Up	dated:					
Personal	Protective	Equipment:				BN2	O LONG		
Safety (Glasses	Steel Toe Sh	ioes	Nitrile G	•		er Gloves (as needed)		
SAFE OPEI	RATING PR	OCEDURES:							
1. Alw ene serv byp whe	ays Lock, Tag rgy sources police on this national assing a guatere the unexp	g, and Try to cor orior to performinachine, when re rd, and/or under oected start-up o ould cause bodily	nance or mstance			ine has no Lock- ut at this point.	Out point	and can only	
(Use this proce cause injury. (OCKOUT PROCEDURE: Use this procedure before any servicing or maintenance activities are performed where the expected energization, start up, or release of stored energy may ause injury. (I.e. repairs, set-up, clearing parts, etc.) OCK Out/Tag Out Equipment Needed:								
Lock Out/Tag Out Equipment Needed:									
Tag	ndoine or N	// dintananaa.							
Before Servicing or Maintenance: 1. Notify all affected personnel that you intend to lockout the equipment. 2. Clear the area and equipment of tools, parts and other materials. 3. Identify breaker 15 on the main breaker box located on the east side of the Sediment Tanks. 4. Denergize breaker switch by flipping to OFF position.					person/pers done. 6. Dissipat turn the breaker	g shall indicate or release Sedimer box, to the	aker switch. clude date taken took out of servi ase any stored e nt Drive 2 switch the hand position the OFF position	ice, and w nergy by i, located i and pusl	vork being trying to to left of
Energy :	Sources:	11							
	Magnitude:	460V							
Energy Isola	ation Device & Location:	Breaker box locat side of Sedimer							
		aintenance:			<u> </u>				
 Clear mad Make surd Notify afficenergized Remove Information Re-energized 	chine or equipme e all guarding is i ected personnel t ocks, devices, ar	that the machine or e nd tags from energy is machine by returning	people. quipment wil solation devic	es.	Prepared by Approvals				Pate:



Machine: Area:	Surface Was Filter Buildin			D	lont.			
Area:	Filter Buildin				lant:	Water Treatment P	lant	
			pdated:	-				
Personal	Protective	Equipment:					1	
	D					1000 CENT		
Safety (Glasses	Steel Toe Shoes		loves (as ded)	Leat	ther Gloves (as needed)		
SAFE OPE	RATING PR	OCEDURES:						
ene ser byp whe	ergy sources provided in the contract of the c	g, and Try to control haza prior to performing mainten nachine, when removing ord, and/or under any circu pected start-up or energizational cause bodily harm.	enance or r imstance	2. Lado swit	-	y be needed to rea	ach knife (disconnect
(Use this proce cause injury. (I.e. repairs, set-	URE: servicing or maintenance activiti up, clearing parts, etc.) quipment Needed:	es are performe	ed where the expe	ected ene	rgization, start up, or re	elease of sto	ored energy may
DANCE Company of the state of								
Lock Before Sei		Tag H Maintenance:	lasp					
 Notify a the equ Clear the materia Identify 10 feet 	all affected pendipment. The area and ends. The Surface Was below the value.	ersonnel that you intend to equipment of tools, parts a sh Valve 1 disconnect swit alve on the wall in the pipe ch by flipping to OFF posit	and other ch located gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	shall in ons that e or rel Surfac cated or	k, and tag on knife nclude date taken It took out of servi ease any stored en e Wash Valve 1 m In the face of the vowitch to the CLOSI	out of se ice, and w nergy by otor gree alve.	vork being trying to n switch to
Energy	Sources:	11						
	Magnitude:	110V						
Energy Isola	ation Device & Location:	Disconnect switch located below valve in gallary						
After Serv		aintenance:	•				•	
 Verify all Clear mad Make surd Notify affienergized Remove I Re-energ 	controls are "off' chine or equipme e all guarding is ected personnel l. ocks, devices, ar	or in neutral position. ont of tools, parts, or people. in place. that the machine or equipment w and tags from energy isolation devi	ces.	Prepared by Approvals			<u>D</u>	vate:



	Company Compan							
Machir	ne: Surface Was	h Valve 2		Р	lant:	Water Treatment P	Plant	
Area:	Filter Buildin		odated:	-				
Pers	onal Protective	Equipment:						
5	7					Cook Cook		
Sa	afety Glasses	Steel Toe Shoes		loves (as ded)	Lea	ther Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1.	energy sources p service on this m bypassing a gual where the unexp	g, and Try to control hazar prior to performing mainten achine, when removing or rd, and/or under any circulected start-up or energizational cause bodily harm.	nance or - mstance	2. Ladd swit		y be needed to rea	ach knife (disconnect
(Use th cause i	njury. (I.e. repairs, set-u	servicing or maintenance activitie	s are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	ored energy may
		DANCER The arrow are all the control of the contro						
	Lock		asp					
	e Servicing or N							
2. C m 3. Ic	ne equipment. lear the area and e laterials. lentify Surface Was D feet below the va	ersonnel that you intend to quipment of tools, parts and sh Valve 2 disconnect switch live on the wall in the pipe ch by flipping to OFF positi	nd other ch located gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	shall it ons that e or relacted of the content of t	ck, and tag on knif nclude date taken at took out of serv ease any stored e e Wash Valve 2 m n the face of the v witch to the CLOS	out of se ice, and w energy by notor gree valve.	vork being trying to n switch to
Ene	ergy Sources:	11						
	Magnitude:	110V						
Energ	y Isolation Device & Location:	Disconnect switch located below valve in gallary						
After	Servicing or Ma		_1				1	
1. Ve 2. Cl 3. Ma 4. No er	erify all controls are "off" ear machine or equipme ake sure all guarding is i otify affected personnel t pergized.	or in neutral position. nt of tools, parts, or people. n place. hat the machine or equipment wil		Prepared by Approvals			<u>D</u>	Date:
6. Re		d tags from energy isolation devic machine by returning energy isolat on.						



7								
Machine:	Surface Was	h Valve 3		Р	lant:	Water Treatment P	Plant	
Area:	Filter Buildin		odated:	_	-			
Personal	Protective	Equipment:						
5	D				B.	CEAN CEAN		
Safety	Glasses	Steel Toe Shoes	Nitrile G need	loves (as ded)	Leat	her Gloves (as needed)		
SAFE OPE	RATING PR	OCEDURES:						
en ser by wh	ergy sources proice on this not passing a guater the unexp	g, and Try to control hazar prior to performing mainten nachine, when removing or rd, and/or under any circuloected start-up or energiza ould cause bodily harm.	nance or - mstance	2. Lado swit	-	be needed to rea	ach knife	disconnect
(Use this proc cause injury.	(I.e. repairs, set-	URE: servicing or maintenance activitie up, clearing parts, etc.) quipment Needed:	es are performe	d where the expe	ected enei	gization, start up, or r	elease of sto	ored energy may
		DANGER Was Programme for the Conference of the						
Loc		•	asp					
		Maintenance:		· - · · ·				
the equal 2. Clear to material 3. Identifiation 10 feet	uipment. he area and e als. y Surface Was t below the va	ersonnel that you intend to equipment of tools, parts and sh Valve 3 disconnect switch alve on the wall in the pipe ch by flipping to OFF positi	nd other ch located gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	shall income that e or release Surface cated or	k, and tag on knif nclude date taken t took out of serv ease any stored e e Wash Valve 3 m the face of the v vitch to the CLOS	n out of se rice, and v energy by notor gree valve.	vork being trying to en switch to
Energy	Sources:	11						
	Magnitude:	110V						
Energy Iso	lation Device & Location:	Disconnect switch located below valve in gallary						
After Serv		aintenance:	•	-			-	
 Verify all Clear ma Make sui Notify af energize Remove Re-energize 	controls are "off" achine or equipme re all guarding is fected personnel d. locks, devices, ar gize or power-up i	or in neutral position. Int of tools, parts, or people. In place. Ithat the machine or equipment wil Ind tags from energy isolation device	ces.	Prepared by Approvals			<u>C</u>	Date:
to norma	al operating positi	on.						



	7							
Machi	ne: Surface Was	h Valve 4		Р	lant:	Water Treatment P	Plant	
Area:	Filter Buildin		odated:		•			
Pers	onal Protective	Equipment:						
5	7				-	100 CEN		
S	afety Glasses	Steel Toe Shoes	Nitrile G nee	loves (as ded)	Lea	ther Gloves (as needed)		
SAFE	OPERATING PR	OCEDURES:						
1	energy sources p service on this m bypassing a gua where the unexp	g, and Try to control hazar prior to performing mainten achine, when removing or rd, and/or under any circulected start-up or energizational cause bodily harm.	nance or - mstance	2. Lado swit	-	y be needed to rea	ach knife (disconnect
(Use tl cause	injury. (I.e. repairs, set-	servicing or maintenance activitie	s are performe	ed where the expe	ected ene	rgization, start up, or r	release of sto	ored energy may
		DANCER Was regular many or a control of the contro						
	Lock		asp					
	e Servicing or N		In all and		!	l! +!:-	! . . .	
2. C n 3. Id	ne equipment. lear the area and e naterials. dentify Surface Was 0 feet below the va	ersonnel that you intend to quipment of tools, parts and sh Valve 4 disconnect switch live on the wall in the pipe ch by flipping to OFF positi	nd other ch located gallery.	*NOTE* Tag person/pers done. 6. Dissipat turn the open loo	shall in ons that e or rel Surfact cated or	k, and tag on knif nclude date taken it took out of serv ease any stored e e Wash Valve 4 m n the face of the v witch to the CLOS	out of se ice, and w energy by notor gree valve.	vork being trying to en switch to
En	ergy Sources:	11						
	Magnitude:	110V						
Ener	gy Isolation Device & Location:	Disconnect switch located below valve in gallary						
After	Servicing or Ma							
1. V 2. C 3. M 4. N	erify all controls are "off" lear machine or equipme ake sure all guarding is i otify affected personnel t nergized.	or in neutral position. nt of tools, parts, or people. n place. that the machine or equipment wil		Prepared by Approvals			D	oate:
6. R	 Remove locks, devices, and tags from energy isolation devices. Re-energize or power-up machine by returning energy isolating devices to normal operating position. 							



→								
Machine:	Vacuum Pum	p 1		P	lant: \(\sigma\)	Water Treatment P	lant	
Area:	High Service		Updated:					
Personal	Protective	Equipment:			5N9			
Safety	Glasses	Steel Toe Shoes		otection (as ded)		er Gloves (as needed)		
		OCEDURES:		<u>, </u>				
ene ser byr wh	ergy sources provice on this modern assing a guar ere the unexp	g, and Try to control haze prior to performing maint nachine, when removing rd, and/or under any circ ected start-up or energize puld cause bodily harm.	tenance or or cumstance	2. Use	caution	some parts could	d be HOT	
(Use this proc cause injury.	(I.e. repairs, set-u	JRE: servicing or maintenance activi up, clearing parts, etc.) uipment Needed:	ties are performe	ed where the expo	ected energ	ization, start up, or r	release of st	tored energy may
		DANGER THE STATE OF THE STATE						
Loc Before Se		Tag laintenance:	Hasp					
 Notify a the equipment of t	all affected pe uipment. he area and e als. y Vaccum Pun e Pump Room uize handle sw nasp, lock, and	rsonnel that you intend a quipment of tools, parts ap 1 disconnect switch in located on the front of the itch by turning to OFF poor d tag on handle switch. Clude date taken out of s	and other the High Ne Vacuum osition.	turn Pur	mp 1 switeath hand	ase any stored e ich to Hand posi lle switch. osition.		
person done.	/persons that	took out of service, and	work being					
Energy	Sources:	41						
	Magnitude:	460V						
Energy Isol	ation Device & Location:	Breaker box located on front of Vacuum Pump	of					
 Verify all Clear ma Make sur 	chine or equipment e all guarding is in	or in neutral position. nt of tools, parts, or people.	will be re-	Prepared by Approvals				Date:
energized 5. Remove 6. Re-energ	d. locks, devices, an	d tags from energy isolation de nachine by returning energy iso	vices.	Appiovals	·			



- The state of the									
Machine:	Vacuum Pum	p 2			P	lant:	Water Treatment F	Plant	
Area:	High Service		Update	ed:					
Personal	Protective	Equipment:			AD I	[5 N	roon /		
Safety	Safety Glasses Steel Toe Shoes Hearing P					Leath	ner Gloves (as needed)		
SAEE ODEI	DATING DD	OCEDURES:							
1. Alw ene ser byp whe	ays Lock, Tag rgy sources p vice on this m assing a guar ere the unexp	g, and Try to control prior to performing nachine, when removed, and/or under any ected start-up or enough cause bodily ha	naintenand ving or vircumsta ergization	ce or ance	2. Use	caution	some parts could	d be HOT.	
(Use this proce cause injury. (I.e. repairs, set-u	JRE: servicing or maintenance up, clearing parts, etc.) uipment Needed		e performe	d where the expo	ected energ	nization, start up, or ı	release of sto	ored energy may
		DANCES THE STATE OF THE STATE O)					
Lock		Tag	Hasp						
 Notify a the equ Clear the material Identify Service Pump. Denerg Apply head the equ 	Ill affected pe ipment. ne area and ed ils. Vaccum Pum Pump Room ize handle sw asp, lock, and Tag shall ind	Maintenance: rsonnel that you into quipment of tools, p np 2 disconnect swite located on the front itch by turning to Old tag on handle swite clude date taken out took out of service,	arts and o ch in the F of the Vac FF position ch. of service	other High cuum n.	turn Pur	mp 2 swi eath hand	ase any stored e tch to Hand posi dle switch. osition.		
-	0	. 1/							
<u>Energy</u>	Sources: Magnitude:	460V							
Eneray Isola	magnitude:	Breaker box located on t	ront of						
	Location:	Vacuum Pump	. 5 61						
 Verify all Clear mad Make surd Notify affienergized Remove I Re-energ 	controls are "off" chine or equipment e all guarding is in ected personnel t cocks, devices, an	hat the machine or equipr d tags from energy isolation nachine by returning energi	nent will be r		Prepared by Approvals			D	Pate: