

Daily Check List for Penta Wood Products Site

(ALL EQUIPMENT MAINTENANCE ALSO TRACKED IN DATABASE TOOL)

Date: 2/6/14

Prepared By: S. Broughman

	Yes	No	Measurement(s)/Comments
<u>AHA Completed:</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	carbon change out
<u>Overall System:</u>			
System treating water:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	see notes
System discharge flowrate (gpm):			
<u>Coagulation Tank:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
pH reading from portable meter:			
Portable calibrated?	<input type="checkbox"/>	<input type="checkbox"/>	
Tank probes calibrated?	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Flocculation Tank:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Polymer System:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
Water level probes cleaned?	<input type="checkbox"/>	<input type="checkbox"/>	
<u>DAF:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
Turbidity:			
<u>GAC Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Bag Filters:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
Filters changed?	<input type="checkbox"/>	<input type="checkbox"/>	
Starting pressure reading:			
Final pressure reading:			
<u>Pre-Filter Vessel:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	
Filter backwashed?	<input type="checkbox"/>	<input type="checkbox"/>	
Starting pressure reading:			
Final pressure reading:			

Daily Checklist (cont.)

	Yes	No	Measurement(s)/Comment(s)
<u>GAC Vessels:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
Lead GAC pressure reading:			_____
Lag GAC pressure reading:			_____
<u>Neutralization Tank:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			_____
Portable calibrated?	<input type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>COW:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>RDVF:</u>			
Batch treated:	<input type="checkbox"/>	<input type="checkbox"/>	_____
Bags of DE used:			_____
Volume of polymer used:			_____
Beginning float tank level:			_____
Ending float tank level:			_____
Greased?	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>RDVF Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Biovent Blower:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____

Daily Log (Chronologic Summary of Day and Activities):

Arrived on site

Check system inside and outside - good

North Shore arrives on site to pick up Scaffolding and Mob off site

Did work orders and custodial duties

Siemens arrive on site to fill carbon tanks,

Support Siemens in filling tank

Siemens cleanup and Mob off site

Secure plant - leave site, let carbon soak.

Samples Collected

Location(s)	Sample IDs	Analysis
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Daily Check List for Penta Wood Products Site

(ALL EQUIPMENT MAINTENANCE ALSO TRACKED IN DATABASE TOOL)

Date: 2/19/14

Prepared By: S. Broughman

	Yes	No	Measurement(s)/Comments
<u>AHA Completed:</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>Overall System:</u>			_____
System treating water:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
System discharge flowrate (gpm):			58.7
<u>Coagulation Tank:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			5.23
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>Flocculation Tank:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	good floc
<u>Polymer System:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water level probes cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<u>DAF:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Turbidity:			in-line = 5.83 manual 12.34
<u>GAC Feed Pump:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<u>Bag Filters:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Filters changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Starting pressure reading:			0.3
Final pressure reading:			0.8
<u>Pre-Filter Vessel:</u>			_____
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Filter backwashed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Starting pressure reading:			6.0
Final pressure reading:			1.3

Daily Checklist (cont.)

	Yes	No	Measurement(s)/Comment(s)
<u>GAC Vessels:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Lead GAC pressure reading:			-0.0
Lag GAC pressure reading:			0.2
<u>Neutralization Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			6.46
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>COW:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	skim scum
<u>RDVF:</u>			
Batch treated:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Bags of DE used:			_____
Volume of polymer used:			_____
Beginning float tank level:			_____
Ending float tank level:			_____
Greased?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>RDVF Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Biovent Blower:</u>			
Operation is Normal:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	off-line

Daily Log (Chronologic Summary of Day and Activities):

Arrived on site

Check system inside and outside - good

Set up for system samples, collect cooler, get ice, pack cooler, did COC, and fed-x air bill.

Zack with Nijhuis arrives on site to go over DAF, did AHA, PTSP, signed all paperwork

Set up for BW, turn off system, turn on potable water, start BW, 3 CYCLES, BW complete, turn off water, restart GAC, restart system, let stabilize.

Did work orders and custodial duties

Check flocc tank

Check in-line meter

Check DAF - air, sludge, effluent water

Spray down DAF

Skim scum layer in COW

Check polymer makeup

Calibrated portable ph meter, test both tanks, manually test turbidity

Set system alarm

Secure plant - leave site

Samples Collected

Location(s)	Sample IDs	Analysis
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Daily Check List for Penta Wood Products Site

(ALL EQUIPMENT MAINTENANCE ALSO TRACKED IN DATABASE TOOL)

Date: 3/9/14

Prepared By: S. Broughman

	Yes	No	Measurement(s)/Comments
<u>AHA Completed:</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>Overall System:</u>			
System treating water:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
System discharge flowrate (gpm):			57.6
<u>Coagulation Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			5.19
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>Flocculation Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	good floc
<u>Polymer System:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Water level probes cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<u>DAF:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	turned up air in DAF to get better lift of sludge.
Turbidity:			in-line = 5.63 manual 12.95
<u>GAC Feed Pump:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<u>Bag Filters:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Filters changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Starting pressure reading:			1.0
Final pressure reading:			3.3
<u>Pre-Filter Vessel:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Filter backwashed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Starting pressure reading:			6.0
Final pressure reading:			1.4

Daily Checklist (cont.)

	Yes	No	Measurement(s)/Comment(s)
<u>GAC Vessels:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Lead GAC pressure reading:			0.2
Lag GAC pressure reading:			0.2
<u>Neutralization Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			6.47
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>COW:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	skim scum
<u>RDVE:</u>			
Batch treated:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Bags of DE used:			_____
Volume of polymer used:			_____
Beginning float tank level:			_____
Ending float tank level:			_____
Greased?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>RDVF Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Biovent Blower:</u>			
Operation is Normal:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	off-line

Daily Log (Chronologic Summary of Day and Activities):

Arrived on site

Check system inside and outside - good

Pump UST

Set up for BW, turn off system, turn on potable water, start BW, 2 cycles, BW COMPLETE, turn off water, restart GAC, restart system, let stabilize.

Did BOBCAT Inspection

Change out full bin of filter cake with empty

Check floc tank

Check in-line meter

Check DAF - air, sludge, effluent water

Skim scum layer in COW

Check polymer makeup

Calibrated portable ph meter, test both tanks, manually test turbidity

Set system alarm

Secure plant - leave site

Daily Check List for Penta Wood Products Site

(ALL EQUIPMENT MAINTENANCE ALSO TRACKED IN DATABASE TOOL)

Date: 5/2/14

Prepared By: S. Broughman

	Yes	No	Measurement(s)/Comments
AHA Completed:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Overall System:			
System treating water:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System discharge flowrate (gpm):			<u>51.4</u>
Coagulation Tank:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
pH reading from portable meter:			<u>5.14</u>
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Flocculation Tank:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>good floc</u>
Polymer System:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Water level probes cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DAF:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity:			<u>in-line = 1.81 manual 3.02</u>
GAC Feed Pump:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bag Filters:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Filters changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Starting pressure reading:			<u>0.6</u>
Final pressure reading:			<u>0.8</u>
Pre-Filter Vessel:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Filter backwashed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Starting pressure reading:			<u>1.9</u>
Final pressure reading:			<u>2.7</u>

Daily Checklist (cont.)

	Yes	No	Measurement(s)/Comment(s)
<u>GAC Vessels:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Lead GAC pressure reading:			0.6 _____
Lag GAC pressure reading:			0.3 _____
<u>Neutralization Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			6.48 _____
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>COW:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	skim scum _____
<u>RDVE:</u>			
Batch treated:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Bags of DE used:			_____
Volume of polymer used:			_____
Beginning float tank level:			_____
Ending float tank level:			_____
Greased?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>RDVF Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Biovent Blower:</u>			
Operation is Normal:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	off-line _____

Daily Log (Chronologic Summary of Day and Activities):

Arrived on site

Check system inside and outside - good

Check floc tank

Check in-line meter

Replace tubing on turbidity pump

Check DAF - air, sludge, effluent water

Spray down DAF

Skim scum layer in COW

Check polymer makeup

Calibrated portable pH meter, test both tanks, manually test turbidity

Janssen Saw arrives on site to drop off (6) 1/2 pallets

Charge batteries for vaults

Call in meeting with Mike

Did work orders and custodial duties

Did BOBCAT Inspection

Called Republic Services to add another day for trash pick up for the next 3 weeks. (spring cleaning)

Signed time card

Set system alarm

secure plant - leave site

Samples Collected

Location(s)	Sample IDs	Analysis
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Daily Check List for Penta Wood Products Site

(ALL EQUIPMENT MAINTENANCE ALSO TRACKED IN DATABASE TOOL)

Date: 5/3/14

Prepared By: S. Broughman

	Yes	No	Measurement(s)/Comments
AHA Completed:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Overall System:			
System treating water:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
System discharge flowrate (gpm):			52.8
Coagulation Tank:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
pH reading from portable meter:			5.18
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Flocculation Tank:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	good floc
Polymer System:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Water level probes cleaned?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DAF:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Turbidity:			in-line = 2.34 manual 5.06
GAC Feed Pump:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bag Filters:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Filters changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Starting pressure reading:			0.8
Final pressure reading:			1.1
Pre-Filter Vessel:			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Filter backwashed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Starting pressure reading:			5.0
Final pressure reading:			1.5

Daily Checklist (cont.)

	Yes	No	Measurement(s)/Comment(s)
<u>GAC Vessels:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Lead GAC pressure reading:			0.7 _____
Lag GAC pressure reading:			0.3 _____
<u>Neutralization Tank:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
pH reading from portable meter:			6.45 _____
Portable calibrated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Tank probes calibrated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>COW:</u>			
Operation is Normal:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	skim scum _____
<u>RDVF:</u>			
Batch treated:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Bags of DE used:			_____
Volume of polymer used:			_____
Beginning float tank level:			_____
Ending float tank level:			_____
Greased?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<u>RDVF Feed Pump:</u>			
Operation is Normal:	<input type="checkbox"/>	<input type="checkbox"/>	_____
<u>Biovent Blower:</u>			
Operation is Normal:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	off-line _____

Daily Log (Chronologic Summary of Day and Activities):

Arrived on site

Check system inside and outside - good

Set up for BW, turn off system, turn on potable water, start BW, 2 CYCLES, BW complete, turn off water, restart GAC, restart system, let stabilize.

Pump out vaults 10,12 and 13

Charge batteries for vaults

Did work orders and custodial duties

Check floc tank

Check in-line meter

Check DAF - air, sludge, effluent water

Spray down DAF

Skim scum layer in COW

Check polymer makeup

Calibrated portable ph meter, test both tanks, manually test turbidity

Did spring cleaning

Set system alarm

Secure plant - leave site

Samples Collected

Location(s)	Sample IDs	Analysis
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____