

June 5, 2020

Blues City Brewery

Subject: June Vibration Service

Most of the machines surveyed were found to be in good condition with the exception of the following:

QualiTest® uses a four step rating system for defects.

<u>Class I:</u> Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

<u>Class II:</u> Defect (s) present that may cause problem in long term (2-6 months.). Repair during normal maintenance scheduling. Continue to monitor.

<u>Class III</u>: Defect (s) present that may cause failure in short term (less than 2 months.). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

<u>Class IV</u>; Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs

Hi-Speed Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

Jess White

ISO Certified Vibration Analyst *Hi-Speed* Industrial Service jwhite@gohispeed.com

7030 Ryburn Drive Millington, TN 38053 P. 901-873-5300 F. 901-873-5301

Reportable equipment

Yellow Box Filtered Water Pump

The vibrations for this unit increased substantially in April and have remained at that level this survey. The vibrations in the motor axial and horizontal continue to dominate the data. We suspect a worn coupling, or alignment issue. Repair during next opportunity. **Rated a Class II Defect.**

Service Water Pump 8

The vertical and axial motor 1x vibrations for this unit are very high. This has continued to increase over the few months and the amplitude is high enough to be of concern. Recommend inspecting all foot bolts, the coupling for wear and alignment. **Rated as a Class II Defect.**

Service Water Pump 3

The inboard and outboard horizontal values have reduced to a .3 "/sec 2x from the previous .4 "/sec 2x. We will continue to monitor this unit closely. **Rated as a Class I Defect.**

RO Water Pump 1, 2

These units still appear to have a vibration at what appears to be vane pass, (5x RPM). There could be wear in the pump, or there could be a flow issue. We recommend further inspection and adjustments of flow related controls, filters, screens or piping. Pump replacement might be considered to reduce the vibration. **Rated a Class II Defect.**

Ammonia Compressor 1

The fundamental and the first three harmonics are still dominant in the data for the motor data. Amplitude hasn't changed since last checked. We suspect an alignment or coupling issue. Have the coupling inspected and the alignment checked. Ensure all fasteners are torqued. **Rated a Class II Defect.**

Ammonia Compressor 3

Multiple harmonics of run speed dominate the data. Amplitude of the 1x vibration in the Motor Outboard Vertical has almost doubled. Have the coupling inspected and alignment checked. Also ensure that there are no loose fasteners. Recommend doing a vibration check of the motor uncoupled to try and narrow down what this issue is. **Rated as a Class III Defect.**

Sugar Tank Viking Pump 4

The gearbox still shows a large number of harmonics in the data for several points. We suspect the gearbox internals are worn. Inspect the unit couplings first for damage, then the gearbox. **Rated a Class II Defect.**

HVAC Hot Water Circulator Pump

The unit vibrations are still around 0.5"/sec velocity peak. Ensure the coupling and alignment are good, and that there is no soft foot or pipe strain. **Rated a Class II Defect.**

Filter Cellar Chill Water Circulator Pump 1

High vibrations are still at 2x line frequency and could indicate an air gap issue in the motor. Air gap issues are variations in the distance between the surface of the rotor and stator. This could be caused by poor machining of the motor housing and end bells or possibly a soft foot. Unbalanced electrical phases can duplicate the vibration also. Start inspections with a precision alignment and soft foot check, followed by a motor phase and voltage analysis up to and including PDMA if necessary. **Rated a Class II Defect.**

Reported previously, better this survey

Boiler 3 Fan Motor Bearings

"Bearing defect frequencies are still in the motor. 1-20KHZ values have continued to increase. This has increased drastically since March report and have remained there. Expect to change out the motor bearings in the future. **Rated a Class II Defect.**" This month the vibrations have drastically dropped. Possible maintenance? No Rating This Month.

Reported prior, but not running this survey

Air Compressor 4

The unit vibrations still seem to be dominated by lobe passing fundamental frequency and harmonics mostly showing in the vertical measurements. Check the fasteners for the motor and compressor just to be sure. We will keep an eye on it closely. **Rated a Class I Defect.**

Service Water Pump 5

This unit has an increased 1x vibration in the motor bearings. Check alignment and inspect coupling. Also check for a soft foot. **Rated as a Class I Defect.**

2nd Floor South Hot Water Pump

Shaft speed vibration dominated the unit vibration data at over ½" per second velocity peak. Inspect the unit base, structure, coupling and fasteners for issues. Have the shaft alignment checked as time allows. **Rated a Class III Defect.**

WORT Transfer Pump A

1x harmonics dominate data for entire unit. Have alignment and coupling checked. Also recommend doing a soft foot check. This could be harmful to motor bearings be prepared to have to replace them in the near future. **Rated as a Class II Defect.**

Database: Blues_city.rbm Station: POWER HOUSE Report Date: 10-Jun-20 20:14

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
AIR COMP 3 - COMPRESSOR #3 -	250HP (((4-Jun-20)
11	OVERALL LEVEL .173 In/Sec	2.833 G-s
12	.157 In/Sec	2.833 G-s .570 G-s 830 G-s
13	.098 In/Sec	
21	.169 In/Sec	2.889 G-s
22	.216 In/Sec	2.461 G-s
23	.076 In/Sec	.985 G-s
71	.176 In/Sec	1.888 G-s
72	.082 In/Sec	1.928 G-s
73	.214 In/Sec	2.405 G-s
81	.214 In/Sec .116 In/Sec	1.314 G-s
82		
83	.105 In/Sec .154 In/Sec	1.700 G-s
AIR COMP 2 - COMPRESSOR #2 -	· 175HP (()4-Jun-20)
	OVERALL LEVEL	1-20 KHZ
11	OVERALL LEVEL .132 In/Sec	2.104 G-s
12	.092 In/Sec .060 In/Sec	.814 G-s .717 G-s
13	.060 In/Sec	.717 G-s
21	.069 In/Sec	1.330 G-s
22	.069 In/Sec .127 In/Sec .064 In/Sec .074 In/Sec .157 In/Sec	1.632 G-s
23	.064 In/Sec	.998 G-s
71	.074 In/Sec	2.321 G-s
72	.157 In/Sec	2.022 6-5
73	.181 In/Sec	3.188 G-s
81	.118 In/Sec	2.240 G-s
82	.131 In/Sec	1.968 G-s
83	.141 In/Sec	3.321 G-s
AIR COMP 5 - COMPRESSOR #5)4-Jun-20)
	OVERALL LEVEL .137 In/Sec	1-20 KHZ
11	.137 In/Sec	.495 G-s
12	.083 In/Sec	.603 G-s
13	148 Tn/Sec	.414 G-s
21	.122 In/Sec	.492 G-s .823 G-s
22	.0/0 in/Sec	.823 G-S
23	.112 In/Sec	.361 G-s .651 G-s
71	.108 In/Sec	.651 G-s
72	.136 In/Sec	.827 G-s
73	.131 In/Sec	.635 G-s
81	.115 In/Sec .050 In/Sec	.869 G-s
82	.050 In/Sec	1.562 G-s
83	.099 In/Sec	.878 G-s
BFWPMIDLE2 - BOILER FEED WAT	ER PUMP MID 2 (((4-Jun-20)

BFWPMIDLE2 - BOILER FEED WATER PUMP MID 2 (04-Jun-20) OVERALL LEVEL 1-20 KHZ

11	.155	In/Sec	1.101 G-s
12	.096	In/Sec	.614 G-s
21	097	In/Sec	.793 G-s
		•	
22		In/Sec	.909 G-s
23	. 063	In/Sec	1.203 G-s
71	.219	In/Sec	1.329 G-s
72			1.430 G-s
		•	
73	.060	In/Sec	1.354 G-s
81	.237	In/Sec	1.251 G-s
82		•	.673 G-s
02	. 152	III/ Dec	.0/5 3 3
BFWPSOUTH1 - BOILER H	FEED WATER PUMP	S 1 (04-J	un-20)
	OVERAL	L LEVEL	1-20 KHZ
11		In/Sec	.127 G-s
		•	
12		In/Sec	.179 G-s
21	. 080	In/Sec	.416 G-s
22	.063	In/Sec	.371 G-s
23			
		•	.641 G-s
71	.134	In/Sec	1.464 G-s
72	.159	In/Sec	1.471 G-s
73		•	1.536 G-s
81		•	1.910 G-s
82	.100	In/Sec	1.060 G-s
DOTIEDENNO DOTIED I		M Mass /04 T	
BOILERFAN3 - BOILER H		•	•
	OVERAL	L LEVEL	1-20 KHZ
11	.074	In/Sec	.448 G-s
12	039	In/Sec	.642 G-s
		•	
21	.067	In/Sec	.583 G-s
22	059	- / -	
22	.059	In/Sec	.445 G-s
		•	
23	.067	In/Sec	.328 G-s
23 71	.067 .079	In/Sec In/Sec	.328 G-s 4.152 G-s
23	.067 .079	In/Sec In/Sec	.328 G-s
23 71	.067 .079 .067	In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s
23 71 72 73	.067 .079 .067 .051	In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s
23 71 72 73 81	.067 .079 .067 .051 .196	In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s
23 71 72 73	.067 .079 .067 .051 .196	In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s
23 71 72 73 81	.067 .079 .067 .051 .196	In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s
23 71 72 73 81	.067 .079 .067 .051 .196 .207	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s
23 71 72 73 81 82	.067 .079 .067 .051 .196 .207 RECIRC PUMP	In/Sec In/Sec In/Sec In/Sec In/Sec (04-J	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20)
23 71 72 73 81 82 CR PUMP 1 - CARBON H	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL	In/Sec In/Sec In/Sec In/Sec In/Sec (04-J L LEVEL	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032	In/Sec In/Sec In/Sec In/Sec In/Sec (04-J L LEVEL In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032	In/Sec In/Sec In/Sec In/Sec In/Sec (04-J L LEVEL In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029	In/Sec In/Sec In/Sec In/Sec In/Sec L LEVEL In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041	In/Sec In/Sec In/Sec In/Sec In/Sec L LEVEL In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21 22	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053	In/Sec In/Sec In/Sec In/Sec In/Sec L LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053	In/Sec In/Sec In/Sec In/Sec In/Sec L LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21 22	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037	In/Sec In/Sec In/Sec In/Sec In/Sec L LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21 22 23 71	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21 22 23 71 72	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON I 11 12 21 22 23 71 72 73	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .028	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s .304 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON F 11 12 21 22 23 71 72	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .028	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON I 11 12 21 22 23 71 72 73	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .028 .025	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s .304 G-s .146 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON I 11 12 21 22 23 71 72 73 81	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .028 .025	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s .304 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .028 .025 .023	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s .304 G-s .146 G-s .099 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .1080 G-s .119 G-s .154 G-s .116 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20)
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .080 G-s .119 G-s .154 G-s .116 G-s .177 G-s .163 G-s .304 G-s .146 G-s .099 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU OVERAL	In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .119 G-s .154 G-s .116 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED 11	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU OVERAL .127	In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .1080 G-s .119 G-s .154 G-s .116 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ 1.166 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED 11 12	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .023 WATER MAKEUP PU OVERAL .127 .085	In/Sec In/Sec	.328 G-s 4.152 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .154 G-s .154 G-s .163 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ 1.166 G-s 1.095 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED 11 12 21	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU OVERAL .127 .085 .158	In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .154 G-s .116 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ 1.166 G-s 1.095 G-s .618 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED 11 12	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU OVERAL .127 .085 .158	In/Sec In/Sec	.328 G-s 4.152 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .154 G-s .154 G-s .163 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ 1.166 G-s 1.095 G-s
23 71 72 73 81 82 CR PUMP 1 - CARBON H 11 12 21 22 23 71 72 73 81 82 MAKEUP #1 - CHILLED 11 12 21	.067 .079 .067 .051 .196 .207 RECIRC PUMP OVERAL .032 .029 .041 .053 .037 .027 .027 .027 .028 .025 .023 WATER MAKEUP PU OVERAL .127 .085 .158 .137	In/Sec In/Sec	.328 G-s 4.152 G-s 1.912 G-s .618 G-s .557 G-s .716 G-s un-20) 1-20 KHZ .118 G-s .154 G-s .116 G-s .163 G-s .304 G-s .146 G-s .099 G-s un-20) 1-20 KHZ 1.166 G-s 1.095 G-s .618 G-s

71	.232 In/Sec	.706 G-s
72	.168 In/Sec	.686 G-s
73	.099 In/Sec	.944 G-s
81	.273 In/Sec	.258 G-s
82	.165 In/Sec	.326 G-s
YB PUMP 1	- YELLOW BOX FILTERED WATER	(04-Jun-20)
ID FOM I	OVERALL LEVEL	1-20 KHZ
11	.167 In/Sec	
	•	
12	.128 In/Sec	.795 G-s
21	.182 In/Sec	.791 G-s
22	.237 In/Sec	.644 G-s
23	.276 In/Sec	1.222 G-s
71	.438 In/Sec	.131 G-s
72	.144 In/Sec	.126 G-s
73	.176 In/Sec	.231 G-s
81	.267 In/Sec	.207 G-s
82	.145 In/Sec	.167 G-s
02	.145 11/560	.107 G-S
SW PUMP 8		(04-Jun-20)
	OVERALL LEVEL	1-20 KHZ
11	.341 In/Sec	.133 G-s
12	.518 In/Sec	.399 G-s
21	.316 In/Sec	.712 G-s
22	1.095 In/Sec	.620 G-s
23	.812 In/Sec	.261 G-s
71	.260 In/Sec	.553 G-s
72	.166 In/Sec	.554 G-s
	•	
72	079 10/500	102 C-a
73	.078 In/Sec	.493 G-s
81	.092 In/Sec	.674 G-s
-	•	
81 82	.092 In/Sec .101 In/Sec	.674 G-s .846 G-s
81	.092 In/Sec .101 In/Sec - RO WATER PUMP 2	.674 G-s .846 G-s (04-Jun-20)
81 82 RO 2	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ
81 82 RO 2 11	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s
81 82 RO 2 11 12	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s
81 82 RO 2 11	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s
81 82 RO 2 11 12	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s
81 82 RO 2 11 12 21	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s
81 82 RO 2 11 12 21 22	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s
81 82 RO 2 11 12 21 22 23	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s
81 82 RO 2 11 12 21 22 23 71 72	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s
81 82 RO 2 11 12 21 22 23 71 72 73	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .327 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .327 In/Sec .146 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s
81 82 RO 2 11 12 21 22 23 71 72 73	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .327 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82	.092 In/Sec .101 In/Sec - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .146 In/Sec .136 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82	- RO WATER PUMP 2 - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .327 In/Sec .146 In/Sec .136 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1	- RO WATER PUMP 2 - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .327 In/Sec .146 In/Sec .136 In/Sec .136 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11	- RO WATER PUMP 2 - RO WATER PUMP 2 OVERALL LEVEL .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .146 In/Sec .136 In/Sec .136 In/Sec .125 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 1 11 12	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .146 In/Sec .136 In/Sec .136 In/Sec .125 In/Sec .201 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .116 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .146 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .125 In/Sec .201 In/Sec .303 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .201 In/Sec .303 In/Sec .133 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .201 In/Sec .303 In/Sec .133 In/Sec .154 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .201 In/Sec .303 In/Sec .133 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21 22	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .201 In/Sec .303 In/Sec .133 In/Sec .154 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21 22 23	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .201 In/Sec .303 In/Sec .154 In/Sec .259 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s .206 G-s .127 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21 22 23 71 72	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .131 In/Sec .133 In/Sec .154 In/Sec .123 In/Sec .123 In/Sec .129 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s .206 G-s .127 G-s 1.156 G-s
81 82 RO 2 11 12 21 22 23 71 72 73 81 82 AMMCOMP 1 11 12 13 21 22 23 71	.092 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .101 In/Sec .122 In/Sec .122 In/Sec .109 In/Sec .109 In/Sec .172 In/Sec .166 In/Sec .262 In/Sec .234 In/Sec .234 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .136 In/Sec .131 In/Sec .133 In/Sec .154 In/Sec .259 In/Sec .123 In/Sec	.674 G-s .846 G-s (04-Jun-20) 1-20 KHZ .736 G-s .797 G-s .803 G-s .723 G-s .358 G-s .604 G-s 1.076 G-s .446 G-s 1.993 G-s 1.100 G-s (04-Jun-20) 1-20 KHZ .253 G-s .161 G-s .334 G-s .364 G-s .206 G-s .127 G-s 1.156 G-s 1.058 G-s

82						
			In/Sec		G-s	
83			In/Sec	1.044	G−s	
71F			In/Sec	.610		
72F			In/Sec	. 704	G-s	
73F		.163	In/Sec	1.868	G-s	
81F		.099	In/Sec	1.066	G-s	
82F		.093	In/Sec	1.124	G-s	
83F		.177	In/Sec	1.599	G−s	
AMMCOMP 2 -	- AMMONIA COMP - #2			(04-Jun-20)		
			LL LEVEL	• •		
11		.072	In/Sec			
12			In/Sec	.158		
13			In/Sec	.027		
21			In/Sec			
22			In/Sec			
23			In/Sec			
71			In/Sec	.571		
72			In/Sec In/Sec			
72			In/Sec In/Sec	. 536		
81			In/Sec In/Sec			
82			In/Sec In/Sec	. 652		
			-			
83			In/Sec	. 543		
71F			In/Sec	. 324		
72F			In/Sec	. 347		
73F		.1/2	In/Sec	.256		
			- /-			
81F			In/Sec	. 525		
82F		.096	In/Sec	.518	G−s	
		.096	-		G−s	
82F 83F	- AMMONIA COMP #3	.096	In/Sec	.518	G-s G-s	
82F 83F		.096 .126	In/Sec	.518 .565 (04-Jun-20)	G-s G-s	
82F 83F		.096 .126 OVERAI	In/Sec In/Sec	.518 .565 (04-Jun-20)	G-s G-s KHZ	
82F 83F AMMCOMP 3 -		.096 .126 OVERAI .199	In/Sec In/Sec LL LEVEL	.518 .565 (04-Jun-20) 1-20 F	G-s G-s (HZ G-s	
82F 83F AMMCOMP 3 - 11		.096 .126 OVERAI .199 .211	In/Sec In/Sec LL LEVEL In/Sec	.518 .565 (04-Jun-20) 1-20 F .509	G-s G-s KHZ G-s G-s	
82F 83F AMMCOMP 3 - 11 11H		.096 .126 OVERAI .199 .211 .633	In/Sec In/Sec LL LEVEL In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167	G-s G-s (HZ G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12		.096 .126 OVERAI .199 .211 .633 .687	In/Sec In/Sec LL LEVEL In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275	G-s G-s (HZ G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H		.096 .126 OVERAI .199 .211 .633 .687 .132	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384	G-s G-s (HZ G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13		.096 .126 OVERAI .199 .211 .633 .687 .132 .119	In/Sec In/Sec LL LEVEL In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333	G-s G-s (HZ G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618	G-s G-s (HZ G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618	G-s G-s (HZ G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366	G-s G-s (HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386	G-s G-s (HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83 71F		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160 .113	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463 .348	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83 71F 72F		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160 .113 .109	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463 .348 .326	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83 71F 72F 73F		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160 .113 .109 .179	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463 .348 .326 .660	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83 71F 72F 73F 81F		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160 .113 .109 .179 .140	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463 .348 .326 .660 .959	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	
82F 83F AMMCOMP 3 - 11 11H 12 12H 13 21 22 23 71 72 73 81 82 83 71F 72F 73F		.096 .126 OVERAI .199 .211 .633 .687 .132 .119 .373 .145 .117 .153 .176 .140 .124 .160 .113 .109 .179 .140 .136	In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec In/Sec	.518 .565 (04-Jun-20) 1-20 F .509 .167 .275 .392 .384 .822 .333 .618 .528 .366 1.386 .730 .606 .463 .348 .326 .660	G-s G-s HZ G-s G-s G-s G-s G-s G-s G-s G-s G-s G-s	

Clarification Of Vibration Units:

Acc --> G-s PK

G		>	In/Sec	PK		Abbreviated 1	Last Measurement
Summa	ary		*****	******	****	****	
		Data	base: Bl	lues cit	v.rbm		
			ion: UH		-		
					-20 20:15		
	MEASURE	MENT F	OINT		OVERALL LEVEL	HFD / VHFD	
	2NHWP	-	2ND FLOOP	RN. HOT	WATER PUMP		
					OVERALL LEVEL	1-20 KHZ	
		11			.277 In/Sec		
		12				.511 G-s	
		21			.090 In/Sec .153 In/Sec	.986 G-s .684 G-s	
		22					
		23 71				.217 G-s	
		71 72			.485 IN/Sec	2.002 G-s	
		72 73			.169 In/Sec	2.518 G-s 2.988 G-s	
		75 81					
		82			111 In/Sec	2.808 G-s 3.221 G-s	
		02			.III IN/Sec	J.221 G-S	
C1			Vibratio		:		
			G-s				
	Vel	>	In/Sec	PK		Abbreviated 1	Last Measurement
Summa	ary						
Summa	ary		*****	******	*****	****	
Summa	ary	Data				****	
Summa	ary		base: Bl	lues_cit	y.rbm	*****	
Summa	ary	Stat	nbase: Bl ion: Bl	Lues_cit REWING 1	y.rbm ST FLOOR	*****	
Summa	ary	Stat	nbase: Bl ion: Bl	Lues_cit REWING 1	y.rbm	*****	
Summa	-	Stat Repo	base: Bl ion: Bl ort Date:	lues_cit REWING 1 10-Jur	y.rbm ST FLOOR -20 20:15		
Summa	MEASURE	Stat Repo	base: Bl ion: Bl ort Date:	lues_cit REWING 1 10-Jur	y.rbm ST FLOOR		
Summa	-	Stat Repo	base: Bl ion: Bl ort Date:	lues_cit REWING 1 10-Jur	y.rbm ST FLOOR -20 20:15		
Summa	MEASURE	Stat Repo MENT P	abase: Bi sion: Bi ort Date: POINT	lues_cit REWING 1 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL		cation ***
	MEASURE	Stat Repo MENT F 	abase: Bi sion: Bi ort Date: POINT	lues_cit REWING 1 10-Jur as Founc	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE	Stat Repo MENT F 	abase: Bi sion: Bi ort Date: POINT NO DATA Wa easurement	lues_cit REWING 1 10-Jur as Founc s Summar	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific	cation ***
	MEASURE	Stat Repo MENT F 	abase: Bi sion: Bi ort Date: POINT NO DATA Wa easurement	lues_cit REWING 1 10-Jur as Founc s Summar	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL I That Meets the	HFD / VHFD e Report Specific	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data	abase: Bl ion: Bf ort Date: POINT NO DATA Wa easurement *****	Lues_cit REWING 1 10-Jur as Found Summar	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data Stat	abase: Bl ion: Bf ort Date: POINT NO DATA Wa asurement ***** abase: Bl ion: Bf	Lues_cit REWING 1 10-Jur as Found Summar ******* Lues_cit REWING E	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data Stat	abase: Bl ion: Bf ort Date: POINT NO DATA Wa asurement ***** abase: Bl ion: Bf	Lues_cit REWING 1 10-Jur as Found Summar ******* Lues_cit REWING E	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data Stat Repo	base: Bi ion: Br port Date: POINT HO DATA Wa assurement ****** base: Bi cion: Br port Date:	Lues_cit REWING 1 10-Jur as Found Summar ******* Lues_cit REWING E 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD P Report Specific	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data Stat Repo	base: Bi ion: Br port Date: POINT HO DATA Wa assurement ****** base: Bi cion: Br port Date:	Lues_cit REWING 1 10-Jur as Found Summar ******* Lues_cit REWING E 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific ********* HFD / VHFD	cation ***
	MEASURE	Stat Repo MENT F *** N ast Me Data Stat Repo	base: Bi ion: Br port Date: POINT HO DATA Wa assurement ****** base: Bi cion: Br port Date:	Lues_cit REWING 1 10-Jur as Found Summar ******* Lues_cit REWING E 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific ********* HFD / VHFD	cation ***
	MEASURE 	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD e Report Specific ********* HFD / VHFD 	cation ***
	MEASURE 	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE 	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F 	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL That Meets the y ***********************************	HFD / VHFD 	cation ***
	MEASURE 	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F - 11	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE eviated L MEASURE KCP1	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F - 11	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE eviated L MEASURE KCP1	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F - 11 12 21	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE eviated L MEASURE KCP1	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F 11 12 21 22	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***
	MEASURE eviated L MEASURE KCP1	Stat Repo MENT F *** N ast Me Data Stat Repo MENT F - 11 12 21	abase: Bi ion: Br ort Date: POINT Bo DATA Wa easurement ***** abase: Bi cion: Br port Date: POINT 	Lues_cit REWING 1 10-Jur as Found Summar ******** Lues_cit REWING F 10-Jur	y.rbm ST FLOOR -20 20:15 OVERALL LEVEL 	HFD / VHFD 	cation ***

.120 G-s 72 .057 In/Sec .057 In/Sec .032 In/Sec .067 G-s 73 .141 G-s 81 .037 In/Sec 82 .031 In/Sec .117 G-s _____ Clarification Of Vibration Units: Acc --> G-s PK --> In/Sec PK Vel Abbreviated Last Measurement Summary ****** Database: Blues_city.rbm Station: GRAIN TRANSFER Report Date: 10-Jun-20 20:15 MEASUREMENT POINT OVERALL LEVEL HFD / VHFD _____ _____ _____ *** NO DATA Was Found That Meets the Report Specification *** Abbreviated Last Measurement Summary Database: Blues_city.rbm Station: SUGAR PUMPS Report Date: 10-Jun-20 20:15 OVERALL LEVEL HFD / VHFD MEASUREMENT POINT _____ _____ _____ V3 - SUGAR TANK VIKING PUMP #3 (04-Jun-20) OVERALL LEVEL 1-20 KHZ VERALL098 In/Sec .248 G-s 11 .281 G-s .612 G-s .159 G-s .329 G-s 12 .058 In/Sec 21 22 .052 In/Sec 23 .093 In/Sec 1.883 G-s 31 .093 In/Sec .093 In/Sec 1.003 C = .070 In/Sec 1.063 G-s 32
 .062 In/Sec
 .612 G-s

 .112 In/Sec
 1.332 G-s

 .061 In/Sec
 .850 G-s

 .061 In/Sec
 .648 G-s
33 61 62 63 .301 G-s .114 In/Sec 71 .301 G-s .049 In/Sec 72 .048 In/Sec .109 G-s .125 In/Sec .176 G-s 73 81 - SUGAR TANK VIKING PUMP #4 (04-Jun-20) V4 OVERALL LEVEL 1-20 KHZ .102 In/Sec .122 In/Sec .310 G-s .412 G-s .351 G-s .520 G-s 11 12 .151 In/Sec 21 22 .288 In/Sec .440 G-s .385 G-s .499 G-s 23 .360 In/Sec 31 .256 In/Sec 32 .320 In/Sec

	33		. 62	8 In/Sec	.498 G-s	
	61		.17	8 In/Sec 6 In/Sec	.605 G-s	
	62			8 In/Sec		
	63		. 51	0 In/Sec	.316 G-s	
	71			5 In/Sec	.400 G-s	
	72				.525 G-s	
	73				.956 G-s	
	81		. 27	7 In/Sec 0 In/Sec	.163 G-s	
	82		.03	0 In/Sec	.323 G-s	
V 5	_	SUGAR TA	NK VIKING PUM	P#5 (04-Jun-20)	
			OVER	ALL LEVEL	1-20 KHZ	
	11		. 27	9 In/Sec	.314 G-s	
	12		.06	1 In/Sec	.283 G-s	
	21		.28	5 In/Sec	.299 G-s	
	22		.07	5 In/Sec	.358 G-s	
	23		.18	6 In/Sec	.287 G-s	
	71		.12	0 In/Sec	.526 G-s	
	72		.18	4 In/Sec	.750 G-s	
	73		.13	6 In/Sec	.447 G-s	
Clarifica Acc Vel Summary	>	G-s In/Sec		*****	Abbreviated Last Mea:	surement
	Data	base B	lues_city.rbm			
			LCOHOL PUMP R			
			10-Jun-20			
	nope	20 2000.	10 000 20	20.20		
MEASUF	REMENT E	POINT			HFD / VHFD	
Abbreviated	Last Me Data Stat	asuremen ***** abase: B tion: A		*************** AREA	Report Specification **	**
MEASUF	REMENT P	POINT	OVERA	LL LEVEL	HFD / VHFD	
HVAC C	CULD -	HVAC COL	D GLYCOL CIRC			
				ALL LEVEL	1-20 KHZ	
	11			1 In/Sec	.504 G-s	
	12			7 In/Sec	.375 G-s	
	01				250 0 -	
	21			3 In/Sec	.358 G-s	
	22		. 05	8 In/Sec	.315 G-s	
	22 23		.05	8 In/Sec 2 In/Sec	.315 G-s .184 G-s	
	22 23 71		.05 .07 .16	8 In/Sec 2 In/Sec 5 In/Sec	.315 G-s .184 G-s .624 G-s	
	22 23 71 72		.05 .07 .16 .12	8 In/Sec 2 In/Sec 5 In/Sec 8 In/Sec	.315 G-s .184 G-s .624 G-s .406 G-s	
	22 23 71		.05 .07 .16 .12 .07	8 In/Sec 2 In/Sec 5 In/Sec	.315 G-s .184 G-s .624 G-s .406 G-s .517 G-s	

	82		.116 In/Sec	.756 G-s	
	02				
HVAC H	от –	HVAC HOT W	ATER CIRC PUMP (
			OVERALL LEVEL	1-20 KHZ	
	11				
	12		.197 In/Sec .255 In/Sec	.950 G-s	
	21		.141 In/Sec	.916 G-s	
	22		.321 In/Sec	.694 G-s	
	23		.472 In/Sec	.583 G-s	
	71		.225 In/Sec	.352 G-s	
	72		.183 In/Sec	.437 G-s	
	73		.410 In/Sec	.991 G-s	
	81		.232 In/Sec		
	82		.206 In/Sec	.424 G-s	
Clarifica	tion Of	Vibration	Units:		
Acc			PK		
Vel	>	In/Sec	PK	Abbreviated Last Measu	reme
Summary					
		******	*****	*****	
			es_city.rbm		
			TER CELLAR		
	Repo	ort Date:	10-Jun-20 20:15		
			OVERALL LEVEL		
			R CIRC PUMP #1 (04-Jun-20)	
	1 -		R CIRC PUMP #1 (OVERALL LEVEL	 04-Jun-20) 1-20 KHZ	
	1 - 11		R CIRC PUMP #1 (OVERALL LEVEL	 04-Jun-20) 1-20 KHZ	
	1 - 11 12		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s	
	1 – 11 12 21		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s	
	1 - 11 12 21 22		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s	
	1 - 11 12 21 22 23		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s	
	1 – 11 12 21 22 23 71		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s	
	1 – 11 12 21 22 23 71 72		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s	
	1 – 11 12 21 22 23 71 72 73		R CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .077 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s	
	1 – 11 12 21 22 23 71 72 73 81		CR CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .077 In/Sec .144 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82	CHILL WATE	CR CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec	D4-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec	 04-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s 04-Jun-20)	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 –	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s 04-Jun-20) 1-20 KHZ	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 – 11	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s 04-Jun-20) 1-20 KHZ .363 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .313 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .036 In/Sec .049 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .04-Jun-20) 1-20 KHZ .363 G-s .400 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .092 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .036 In/Sec .080 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .04-Jun-20) 1-20 KHZ .363 G-s .400 G-s .546 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 -	CHILL WATE	CR CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .092 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .036 In/Sec .080 In/Sec .087 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .04-Jun-20) 1-20 KHZ .363 G-s .400 G-s .546 G-s .204 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21 22 23 23 23 23 23 23 23 24 25 23 24 22 23 23 23 24 25 23 24 25 25 25 25 25 25 25 25 25 25	CHILL WATE	CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .092 In/Sec .081 In/Sec .080 In/Sec .080 In/Sec .087 In/Sec	D4-Jun-20) 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 -	CHILL WATE	CR CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .092 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .080 In/Sec .080 In/Sec .087 In/Sec .178 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .471 G-s	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 –	CHILL WATE	CR CIRC PUMP #1 (OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec .115 In/Sec .092 In/Sec .092 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .080 In/Sec .080 In/Sec .087 In/Sec .105 In/Sec .121 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .404 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 72 73 81 72 73 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 81 72 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 81 72 73 71 72 73 73 71 72 73 73 71 72 73 71 72 73 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73	CHILL WATE	Image: Circ Pump #1 (Coverall Level	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .404 G-s .401 G-s .401 G-s .401 G-s .401 G-s .401 G-s .401 G-s	
CHILL	1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 –	CHILL WATE	R CIRC PUMP #1 () OVERALL LEVEL .996 In/Sec .098 In/Sec 1.084 In/Sec 1.084 In/Sec .092 In/Sec .092 In/Sec .092 In/Sec .091 In/Sec .091 In/Sec .081 In/Sec .081 In/Sec .081 In/Sec .080 In/Sec .080 In/Sec .087 In/Sec .105 In/Sec .178 In/Sec .121 In/Sec .122 In/Sec .091 In/Sec .091 In/Sec	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .401 G-s	
CHILL	1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 12 21 22 23 71 72 73 81 82 ELY 1 - 11 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 71 72 73 81 72 73 81 72 73 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 81 72 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 73 71 72 73 81 72 73 71 72 73 73 71 72 73 73 71 72 73 71 72 73 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73 71 72 73	CHILL WATE	Image: Circ Pump #1 (Coverall Level	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .404 G-s .401 G-s .401 G-s .401 G-s .401 G-s .401 G-s .401 G-s	
CHILL WARM G	1 – 11 12 21 22 23 71 72 73 81 82 ELY 1 – 11 12 21 22 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 71 72 73 81 82 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 23 71 72 73 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 81 82 82 81 82 82 81 82 82 82 82 82 82 82 82 82 82	CHILL WATE	Image: Circ Pump #1 (Coverall Level	 1-20 KHZ .514 G-s .657 G-s 1.118 G-s .580 G-s .526 G-s .821 G-s .644 G-s .567 G-s .624 G-s .303 G-s .400 G-s .546 G-s .204 G-s .151 G-s .401 G-s	

12	.018 In/Sec .019 In/Sec	.158 G-s .205 G-s	
21 22	.030 In/Sec .021 In/Sec	.224 G-s .296 G-s .091 C-s	
23	.021 IN/Sec	.091 G-s	
71	.030 In/Sec	.075 G-s	
72	.043 In/Sec		
73	.040 In/Sec	.146 G-s	
81	.027 In/Sec		
82	.028 In/Sec	.079 G-s	
WARM GLY 3 - WARM GI	LYCOL PUMP #3 (0		
11	OVERALL LEVEL	1-20 KHZ .476 G-s	
12	.039 In/Sec .028 In/Sec	.595 G-s	
21	.031 In/Sec		
22	.022 In/Sec		
23	.030 In/Sec	.156 G-s	
71	.030 In/Sec	.205 G-s	
72	.051 In/Sec		
73	078 In/Sec	399 G-s	
81	.028 In/Sec	.169 G-s	
82	.016 In/Sec	.142 G-s	
Vel> In/Sec Y		Abbreviated Last Me	asurement
y Database: Station:	C PK ************************************		asurement
y Database: Station: Report Date	**************************************	*****	asurement
y **** Database: Station: Report Date MEASUREMENT POINT	**************************************	HFD / VHFD 	asurement
y **** Database: Station: Report Date MEASUREMENT POINT	Blues_city.rbm GOVERNMENT CELLAR a: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL	HFD / VHFD 	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI	**************************************	HFD / VHFD 	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .084 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s	asurement
y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .084 In/Sec .052 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .079 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21 22 23 71	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .079 In/Sec .216 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21 22 23 71 73	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .079 In/Sec .197 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21 22 23 71	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .079 In/Sec .216 In/Sec	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s	asurement
Y Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21 22 23 71 73	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .079 In/Sec .165 In/Sec .165 In/Sec (0	HFD / VHFD 94-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 94-Jun-20)	asurement
Y **** Database: Station: Report Date MEASUREMENT POINT COLD GLY 1 - COLD GI 11 12 21 22 23 71 73 81 COLD GLY 4 - COLD GI	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .052 In/Sec .052 In/Sec .1079 In/Sec .197 In/Sec .165 In/Sec LYCOL PUMP #4 (0 OVERALL LEVEL	HFD / VHFD HFD / VHFD H-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 3.804 G-s	asurement
Y The second se	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .084 In/Sec .052 In/Sec .079 In/Sec .165 In/Sec .165 In/Sec LYCOL PUMP #4 (0 OVERALL LEVEL .091 In/Sec	HFD / VHFD 14-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 3.804 G-s 94-Jun-20) 1-20 KHZ .278 G-s	asurement
Y The second se	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .084 In/Sec .052 In/Sec .079 In/Sec .165 In/Sec .165 In/Sec LYCOL PUMP #4 (0 OVERALL LEVEL .091 In/Sec .068 In/Sec	HFD / VHFD 14-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 3.804 G-s 4-Jun-20) 1-20 KHZ .278 G-s .551 G-s	asurement
Y The second se	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .046 In/Sec .052 In/Sec .052 In/Sec .165 In/Sec .165 In/Sec LYCOL PUMP #4 (0 OVERALL LEVEL .091 In/Sec .068 In/Sec .054 In/Sec	HFD / VHFD HFD / VHFD 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 2.403 G-s 3.804 G-s 1-20 KHZ .278 G-s .551 G-s .244 G-s	asurement
Y The second se	Blues_city.rbm GOVERNMENT CELLAR e: 10-Jun-20 20:15 OVERALL LEVEL LYCOL PUMP #1 (0 OVERALL LEVEL .067 In/Sec .046 In/Sec .084 In/Sec .052 In/Sec .079 In/Sec .165 In/Sec .165 In/Sec LYCOL PUMP #4 (0 OVERALL LEVEL .091 In/Sec .068 In/Sec	HFD / VHFD HFD / VHFD H-Jun-20) 1-20 KHZ .113 G-s .299 G-s .286 G-s .623 G-s .140 G-s 2.774 G-s 2.403 G-s 3.804 G-s 3.804 G-s H-Jun-20) 1-20 KHZ .278 G-s .551 G-s	asurement

	81					2.056			
	82			.053	In/Sec	2.026	G−s		
COLD GI	LY 5 -	COLD GLYC	COL PUMP	#5		(04-Jun-20))		
0022 01		0012 0110				1-20 1			
	11								
	21			.082	In/Sec	. 255 . 322	G-s		
	23			.076	In/Sec	.088	G-s		
	71			.025	In/Sec	.155	G-s		
	73			.038	In/Sec	.155 .154	G-s		
	81			.038	In/Sec	.165	G−s		
COLD GI	LY 6 -	COLD GLYC	COL PUMP	#6		(04-Jun-20))		
	-					1-201			
	11					. 329			
	21			.115	In/Sec	. 563	G-s		
	23			.055	In/Sec	. 563 . 693	G-s		
	71					.179			
	73			.033	In/Sec	.136	G-s		
	81			.028	In/Sec	.136 .187	G-s		
PACK GI	LY 2 -	PACKAGING	G COLD G	LYCOL E	PUMP 2	(04-Jun-20))		
						1-20 1			
	11					1.763			
	21			.016	In/Sec	2.000	G-s		
	23			.014	In/Sec	2.000 1.158	G-s		
	71			.033	In/Sec	. 236	G−s		
	73			.032	In/Sec	. 123	G-s		
	81			.014	In/Sec	.123 .155	G-s		
Clarificat				:					
		G-s Tr (Car						T h	
	>	In/Sec	PK			Abbrev	lated	Last	Measurement
Summary		*****	******	*****	******	******			
		base: Bl ion: UN			h				
		rt Date:							
MEACUD	ס ידאידאיז	OINT		OVERAL	I. T.EVET.	HFD ,	/ VHFI	5	
MEASORI	SPIEIVI I	01111		O V DIGIDI		/			

*** NO DATA Was Found That Meets the Report Specification ***