

June 30, 2021

Arkema

Subject: June week 4 service report

Most of the machines surveyed were found to be in good condition except for 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,

David W. Shook Senior Reliability Specialists *Hi-Speed* Industrial Service dshook@gohispeed.com

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

# H2O2 Weekly Route Critical Equipment Observations

#### C Concentrator Vacuum Pump 2130-1

The motor has the highest vibration amplitude of about 0.19"/second velocity peak overall in the axial measurement. Vibration still consists of a few low amplitude shaft speed harmonics with a dominant 4x RPM component we suspect is pump related. **Rated a Class I Defect.** 

### Agitator, Hydrogenator C 7001-01

Data shows all vibrations at or under 0.11"/second velocity peak overall. No issues of note.

#### A/B Concentrator Vacuum Pump 57

The unit vibration overall is 0.3"/sec peak velocity for the outboard pump bearing and is dominated by a 16 order vibration which we believe to be vane pass. We will continue to watch for changes. **Rated a Class I Defect.** 

#### Flash Vacuum Pump 2130-1

Data shows all vibrations under 0.1"/second velocity peak overall. No issues of note.

#### Air Compressor C-201

Rotor bar vibrations are normal for this motor's history. The trend clearly shows that the vibrations vary considerably over time. We still believe these motors have possible weak rotor bar end connections that cause the vibrations to fluctuate higher due to loading. There are still blower case vibrations around 2.5-3 KHz with a wide noise floor. Overall acceleration is 4.5 g's RMS at 1 point. Synchronous and non-synchronous harmonic vibration peaks are evident in the data. All 3 compressors have the same non-synchronous peaks but vary in amplitude. We will continue to monitor this unit closely for changes. **Rated a Class I Defect.** 

#### Air Compressor C-202

Rotor bar vibrations are low for this motor's history. The trend clearly shows that the vibrations vary considerably over time. We still believe these motors have possible weak rotor bar end connections that cause the vibrations to fluctuate higher due to loading. There are still blower case vibrations around 2.5-3 KHz with a wide noise floor. Overall acceleration is 5 g's RMS at 1 point. **Rated a Class I Defect**.

#### Air Compressor C-203

Rotor bar vibrations are normal for this motor's history and could indicate higher loading The trend clearly shows that the vibrations vary considerably over time. We still believe these motors have possible weak rotor bar end connections that cause the vibrations to fluctuate higher due to loading. There are still blower case vibrations around 2.5-3 KHz with a wide noise floor. Overall acceleration is 4.8 g's RMS at 1 point. **Rated a Class I Defect**.

#### Instrument Air Compressor

The male and female shaft vibrations still seem to show gear mesh and harmonics as well as a beat vibration occasionally. They continue to vary over time. Both shafts have between 6 and 11 g's RMS overall in the data. The dominant vibration appears to be the second gear mesh harmonic at near 2500 Hz. We are still watching this unit closely and will be going forward. **Rated a Class I Defect.** 

## Air Compressor NASH A 201-08A

Highest vibration is still in the pump itself at 0.29"/sec velocity peak for the outboard vertical. The vibration spectrum is still dominated by a 20-order vibration, which is thought to be vane pass. **Rated a Class II Defect.** 

## D Hydrogenator Agitator 9002

Highest overall vibration is at 0.3"/sec velocity peak for the gearbox input horizontal. Vibrations are subsynchronous to motor speed at about 9 Hz and a 14 order peak and harmonic. The 9 Hz peak appears to be a resonance, and the amplitude changes over time, but does not seem to be periodic. The others are most likely the number of pinion teeth (14 teeth and the input gear mesh) and the first harmonic of gear mesh. Ensure all fasteners are at proper torque values and inspect support structures for any signs of stress cracks, broken welds, or metal fatigue. **Rated a Class I Defect now.** 

## H2 Monthly Route Equipment

#### P1A Boiler Feed Water Pump

Motor axial vibration has dropped to 0.19"/second velocity peak at shaft speed. No Immediate concern.

# FD Blower C1

Motor data shows a vibration increase over time at shaft speed at near 0.4"/second velocity peak. Inspect the motor cooling fan, shaft coupling, fasteners and alignment as time allows. The fan wheel should also be inspected and cleaned, and a lift check performed to look for excessive bearing to housing clearance. Inspect, clean, and repack the fan bearings. Possible trim balancing after all other checks. **Rated a Class I Defect.** 

# East Cooling Tower Pump CTPE

The pump vibration continues to be slightly elevated at shaft speed. Check all fasteners, the base, the coupling, and alignment as time allows. **Rated a Class I Defect.** 

	Abbreviated La	st Measurement Summa ***********************************	ry **
	Database: Arkema.rbm Station: PEROXIDE Route No. 6: ARKEMA	а • WK4	
	Report Date: 01-Jul-	21 13:13	
MEASUREME	NT POINT OVERALL LEVEI	HFD / VHFD	MACHINE SPEED
2130-1old	- C Concentrator Vacuum	Pump (30-Jun-21)	
	OVERALL LEVE	L 1-20 KHz	
11	.060 In/Sec		1200.0 RPM
21	.068 In/Sec		
23	.194 In/Sec	. 191 G-s	
71	.113 In/Sec		
81	166 In/Sec	564 G-s	
83	.085 In/Sec	1.509 G-s	
7000-01	- AGITATOR, HYDROGENATOR	С (30-Jun-21) т. 1-20 кнг	
02			45 00 PPM
03	041 Tn/Sec		45.00 REA
11	075 In/Sec	607 G-8	1400 0 PPM
12	067 In/Sec	721 G-8	1400.0 1014
13	106 In/Sec	201 G-s	
21	.100 IN/Sec	301 G-8	
21			
22		642 C-2	
23		200 C c	
32		299 G-S	
32			
11		270 G -	
41		501 G - S	
42	.062 In/Sec	.501 G-S	27E 0 DDM
51		.378 G-S	375.0 RPM
53		262 G - S	
51		263 G-S	45 00 000
/1		. 309 G-s	45.00 RPM
02		.169 G-S	
83	.050 In/Sec	.244 G-S	
57	- A/B Concentr Vac Pmp-v	var RPM (30-Jun-21)	
	OVERALL LEVE	L 1-20 KHz	
11	.069 In/Sec	.571 G-s	900.0 RPM
12	.069 In/Sec	299 G-s	
21	.079 In/Sec	270 G-s	
23	.050 In/Sec	.259 G-s	
71	.182 In/Sec	.463 G-s	
81	.302 In/Sec	.799 G-s	
83	.054 In/Sec	.985 G-s	
2130-1	- FLASH VAP VAC PUMP-var OVERALL LEVE	speed (30-Jun-21) L 1-20 KHz	

	11	.042 In/Sec	.054 G-s	1200.0 RPM
	12	.036 In/Sec	.244 G-s	
	21	.053 In/Sec	.305 G-s	
	22	.042 In/Sec	.212 G-s	
	23	.055 In/Sec	.329 G-s	
	71	.063 In/Sec	.333 G-s	
	72	.075 In/Sec	.481 G-s	
	81	.084 In/Sec	.552 G-s	
	82	.073 In/Sec	.565 G-s	
	83	052 In/Sec	441 G-s	
	00			
C-203	- C-203	Comp	(30-Jun-21)	
		OVERALL LEVEL	1-20 KHz	
	11	.047 In/Sec	1.625 G-s	3588.0 RPM
	12	068 Tn/Sec	2 465 G-s	5555.5 1411
	21	021 Tn/Sec	382 G-s	
	22	037 Tn/Sec	723 6-8	
	22	032 In/Sec	623 G-8	
	23	OVEDALL LEVEL	1-20 KH7	
	71M		1 - 20  Miz	
	71M		1.131 G-S	
	72M	.045 IN/Sec	1.558 G-S	
	7.5M 91M	.053 IN/Sec	1.650 G-S	
	01M	.062 IN/Sec	4.764 G-S	
	82M	.058 In/Sec	3.359 G-S	
	715	.045 In/Sec	2.375 G-S	
	72F	.066 In/Sec	2.222 G-s	
	73F	.066 In/Sec	3.050 G-s	
	81F	.048 In/Sec	1.435 G-s	
	82F	.057 In/Sec	1.927 G-s	
a	a		(20 7 01)	
C-202	- C-202	2 Comp	(30-Jun-21)	
		OVERALL LEVEL	1-20 KHZ	2500 0 554
	11	.055 In/Sec	1./91 G-s	3588.0 RPM
	12	.118 In/Sec	1.648 G-S	
	21	.061 In/Sec	.818 G-s	
	22	.094 In/Sec	1.132 G-s	
	23	044 10/900		
		.044 11/500	.260 G-s	
		OVERALL LEVEL	.260 G-s 1-20 KHZ	
	71M	OVERALL LEVEL .033 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s	
	71M 72M	OVERALL LEVEL .033 In/Sec .041 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s	
	71M 72M 73M	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s	
	71M 72M 73M 81M	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s	
	71M 72M 73M 81M 82M	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s	
*	71M 72M 73M 81M 82M 71F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s	
*	71M 72M 73M 81M 82M 71F 72F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .025 In/Sec .059 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s	
*	71M 72M 73M 81M 82M 71F 72F 73F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s	
*	71M 72M 73M 81M 82M 71F 72F 73F 81F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec .032 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s	
*	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec .032 In/Sec .050 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s	
*	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .055 In/Sec .059 In/Sec .059 In/Sec .032 In/Sec .050 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s	
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .055 In/Sec .059 In/Sec .059 In/Sec .032 In/Sec .050 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21)	
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .050 In/Sec .050 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHZ	
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201 11	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .032 In/Sec .050 In/Sec .050 In/Sec .050 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHz .963 G-s	3588.0 RPM
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201 11 12	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .051 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .050 In/Sec .050 In/Sec .050 In/Sec .094 In/Sec .082 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHZ .963 G-s .441 G-s	3588.0 RPM
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201 11 12 21	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .055 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .050 In/Sec .050 In/Sec .094 In/Sec .082 In/Sec .095 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHZ .963 G-s .441 G-s .824 G-s	3588.0 RPM
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201 11 12 21 22	OVERALL LEVEL .033 In/Sec .041 In/Sec .041 In/Sec .056 In/Sec .056 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .050 In/Sec .050 In/Sec .094 In/Sec .082 In/Sec .095 In/Sec .069 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHZ .963 G-s .441 G-s .824 G-s 2.325 G-s	3588.0 RPM
* C-201	71M 72M 73M 81M 82M 71F 72F 73F 81F 82F - C-201 11 12 21 22 23	OVERALL LEVEL .033 In/Sec .041 In/Sec .062 In/Sec .056 In/Sec .055 In/Sec .059 In/Sec .059 In/Sec .059 In/Sec .050 In/Sec .094 In/Sec .094 In/Sec .095 In/Sec .095 In/Sec .069 In/Sec .074 In/Sec	.260 G-s 1-20 KHZ 1.086 G-s .771 G-s 2.103 G-s 3.337 G-s 1.939 G-s 3.127 G-s 1.043 G-s 5.193 G-s 1.888 G-s 1.116 G-s (30-Jun-21) 1-20 KHZ .963 G-s .441 G-s .824 G-s 2.325 G-s 1.828 G-s	3588.0 RPM

_		040 - Ja		
2	/1M	.040 In/Sec	4.251 G-s	
7	72M	.048 In/Sec	2.374 G-s	
7	73M	.070 In/Sec	2.196 G-s	
ε	81M	.048 In/Sec	2.290 G-s	
ç	82M	051 Tr/Sec	4 027 C-s	
	71 -	.051 III/Sec	1.700 G 5	
	1 1 6.	.056 In/Sec	1.799 G-s	
7	72F	.058 In/Sec	2.019 G-s	
7	73F	.047 In/Sec	1.005 G-s	
8	81F	.055 In/Sec	3.804 G-s	
8	82F	.042 In/Sec	.855 G-s	
new AC		- INSTRUMENT AIR COMPRESSOR	(30-Jun-21)	
		OVERALL LEVEL	1-20 KH7	
-	1 1		1 200 G -	1700 0 000
1	11	.14/ In/Sec	1.299 G-S	1/80.0 RPM
1	12	.103 In/Sec	.790 G-s	
1	13	.061 In/Sec	.419 G-s	
2	21	.131 In/Sec	1.740 G-s	
2	22	.074 In/Sec	.924 G-s	
2	23	049 Tn/Sec	466 G-s	
-		OVERALL LEVEL	1-20 KHZ	
-	71			
	/ 1M	.18/ In/Sec	6.523 G-S	
-	/2M	.265 In/Sec	10.76 G-s	
7	73M	.134 In/Sec	2.930 G-s	
ε	81M	.129 In/Sec	2.523 G-s	
ε	32M	.225 In/Sec	5.583 G-s	
Ę	8.3M	182 In/Sec	4.695 G-s	
-	71 F	127 In/Sec	7 010 6-8	
-	7017	160 Tp/Sec	7.010 G S	
	/25	.169 In/Sec	9.552 G-S	
	134.	.101 In/Sec	5.210 G-s	
ε	81F	.165 In/Sec	3.483 G-s	
ε	82F	.309 In/Sec	11.34 G-s	
8	83F	.198 In/Sec	5.088 G-s	
201-08A		- COMPRESSOR, NASH A 201-08A	(30-Jun-21)	
		OVERALL LEVEL	1-20 KHz	
-	1 1		092 C c	E06 2 DDM
	11	.074 IN/Sec	.083 G-S	500.5 RPM
-	12	.0// In/Sec	.129 G-s	
1	13	.154 In/Sec	.121 G-s	
2	21	.089 In/Sec	.087 G-s	
2	22	.091 In/Sec	.097 G-s	
2	23	.141 In/Sec	.083 G-s	
-	71	144 Tn/Sec	1 067 G-s	
-	72	227 In/Sec	21007 0 5	
-	72	.22/ III/Sec	.940 G-S	
	/3	.148 In/Sec	.281 G-S	
6	81	.155 In/Sec	.397 G-s	
8	32	.288 In/Sec	.344 G-s	
8	33	.163 In/Sec	.207 G-s	
202-05		- NASH SEAL LIQUID PUMP-A	(30-Jun-21)	
		OVERALL LEVEL	1-20 KHz	
-	11	016 75/500	087 6-6	1800 0 PDM
-	 		156 C - S	1000.0 RPM
2	2 I	.020 In/Sec	.150 G-S	
2	23	.023 In/Sec	.036 G-s	
7	71	.034 In/Sec	.046 G-s	
7	72	.017 In/Sec	.059 G-s	
9002-10		- D-HYDROGENATOR AGITATOR	(30-Jun-21)	

11       .092 In/Sec       .071 G-s       1185.0 RFM         21       .068 In/Sec       .186 G-s         23       .047 In/Sec       .099 G-s         OVERALL LEVEL 1-20 KHZ         31       .172 In/Sec       .691 G-s         31L       .165 In/Sec       .691 G-s         OVERALL LEVEL 1-20 KHZ         51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RFM         52       .236 In/Sec       .210 G-s       100.0 RFM         51       .296 In/Sec       .204 G-s       531         51L       .221 In/Sec       .204 G-s       532         52L       .239 In/Sec       .367 G-s       531         61       .141 In/Sec       .112 G-s       611         61       .141 In/Sec       .127 G-s       83         82       .067 In/Sec       .039 G-s       83         .024 In/Sec       .127 G-s       83       .024 In/Sec         Clarification Of Vibration Units:	11       .092 In/Sec       .071 G-s       1185.0 RPM         21       .068 In/Sec       .186 G-s         23       .047 In/Sec       .099 G-s         OVERALL LEVEL 1-20 KHZ         31       .172 In/Sec       .691 G-s         31L       .165 In/Sec       .710 G-s         OVERALL LEVEL 1-20 KHZ         51       .296 In/Sec       .212 G-s         51L       .21 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .210 G-s       52         51L       .21 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .204 G-s       53         51L       .21 In/Sec       .367 G-s       531         .023 In/Sec       .367 G-s       61       .141 In/Sec       .112 G-s         611       .141 In/Sec       .112 G-s       611       .032 In/Sec       .039 G-s         81       .032 In/Sec       .039 G-s       .024 In/Sec       .127 G-s         Ification Of Vibration Units:         cc      > G-s       PK
21       .068 In/Sec       .186 G-s         23       .047 In/Sec       .099 G-s         OVERALL LEVEL 1-20 KHZ         31       .172 In/Sec       .691 G-s         31L       .165 In/Sec       .710 G-s         OVERALL LEVEL 1-20 KHZ         51       .296 In/Sec       .219 G-s         51       .296 In/Sec       .219 G-s         51       .296 In/Sec       .220 G-s         51       .221 In/Sec       .204 G-s         52       .236 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK         Vel      > In/Sec       PK         ***********************************	21 .068 In/Sec .186 G-s 23 .047 In/Sec .099 G-s OVERALL LEVEL 1-20 KHZ 31 .172 In/Sec .691 G-s 31L .165 In/Sec .710 G-s OVERALL LEVEL 1-20 KHZ 51 .296 In/Sec .212 G-s 51L .221 In/Sec .210 G-s 52L .239 In/Sec .204 G-s 53 .116 In/Sec .367 G-s 53L .023 In/Sec .367 G-s 611 .141 In/Sec .112 G-s 611 .141 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s 
23 .047 In/Sec .099 G-s OVERALL LEVEL 1-20 KHZ 31 .172 In/Sec .691 G-s 31L .165 In/Sec .710 G-s OVERALL LEVEL 1-20 KHZ 51 .296 In/Sec .212 G-s 51L .221 In/Sec .212 G-s 51L .221 In/Sec .219 G-s 100.0 RPM 52 .236 In/Sec .220 G-s 52L .239 In/Sec .367 G-s 53 .116 In/Sec .367 G-s 53L .023 In/Sec .367 G-s 61L .190 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s Clarification Of Vibration Units: Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	23 .047 In/Sec .099 G-s OVERALL LEVEL 1-20 KHZ 31 .172 In/Sec .691 G-s 31L .165 In/Sec .710 G-s OVERALL LEVEL 1-20 KHZ 51 .296 In/Sec .212 G-s 51L .221 In/Sec .219 G-s 100.0 RPM 52 .236 In/Sec .204 G-s 53 .116 In/Sec .367 G-s 531 .023 In/Sec .367 G-s 61 .141 In/Sec .112 G-s 61 .141 In/Sec .049 G-s 82 .067 In/Sec .049 G-s 83 .024 In/Sec .127 G-s 5316 In/Sec .127 G-s 54
OVERALL LEVEL         1-20 KHZ           31         .172 In/Sec         .691 G-s           31L         .165 In/Sec         .710 G-s           OVERALL LEVEL         1-20 KHZ           51         .296 In/Sec         .212 G-s           51L         .221 In/Sec         .219 G-s         100.0 RPM           52         .236 In/Sec         .204 G-s         .           51L         .221 In/Sec         .204 G-s         .           52         .239 In/Sec         .204 G-s         .           53         .116 In/Sec         .367 G-s         .           53L         .023 In/Sec         .049 G-s         .           61         .141 In/Sec         .112 G-s         .           61L         .190 In/Sec         .099 G-s         .           81         .032 In/Sec         .049 G-s         .           82         .067 In/Sec         .039 G-s         .           83         .024 In/Sec         .127 G-s   Clarification Of Vibration Units: Acc> G-s FK Vel> In/Sec FK * * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary **********************************	OVERALL LEVEL         1-20 KHZ           31         .172 In/Sec         .691 G-s           31L         .165 In/Sec         .710 G-s           OVERALL LEVEL         1-20 KHz           51         .296 In/Sec         .212 G-s           51L         .221 In/Sec         .219 G-s         100.0 RPM           52         .236 In/Sec         .220 G-s         .212 G-s           51L         .221 In/Sec         .204 G-s         .235 In/Sec         .204 G-s           53         .116 In/Sec         .367 G-s         .61         .141 In/Sec         .112 G-s           61         .141 In/Sec         .112 G-s         .61         .023 In/Sec         .099 G-s           81         .032 In/Sec         .049 G-s         .82         .067 In/Sec         .039 G-s           83         .024 In/Sec         .127 G-s         .127 G-s
31       .172 In/Sec       .691 G-s         31L       .165 In/Sec       .710 G-s         OVERALL LEVEL       1-20 KHz         51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s       100.0 RPM         52       .236 In/Sec       .204 G-s       53         531       .116 In/Sec       .367 G-s       531         61       .141 In/Sec       .112 G-s         611       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK         Vel      > In/Sec       PK         Vel         ***********************************	31       .172 In/Sec       .691 G-s         31L       .165 In/Sec       .710 G-s         OVERALL LEVEL       1-20 KHz         51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s       521         51L       .221 In/Sec       .204 G-s       53         52       .236 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         61       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Inform PK         Infor
31L       .165 In/Sec       .710 G-s         OVERALL LEVEL       1-20 KHz         51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RFM         52       .236 In/Sec       .220 G-s       .220 G-s         52L       .239 In/Sec       .204 G-s       .205 G-s         53       .116 In/Sec       .367 G-s       .367 G-s         61       .023 In/Sec       .367 G-s       .361 G-s         61       .141 In/Sec       .112 G-s       .367 G-s         61       .023 In/Sec       .369 G-s       .361 G-s         61       .141 In/Sec       .112 G-s       .399 G-s         81       .032 In/Sec       .039 G-s       .33         82       .067 In/Sec       .049 G-s       .393         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc       -> G-s       FK         Vel      > In/Sec       PK         Vel      > In/Sec       FK         Database: Arkema.rbm         Station:       HYDROGEN         Route No.       1: H2 MONTHLY         Report Date:       01-Jul-	31L       .165 In/Sec       .710 G-s         OVERALL LEVEL       1-20 KHz         51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .200 G-s       52         51L       .221 In/Sec       .200 G-s       52         52       .239 In/Sec       .204 G-s       53         53       .116 In/Sec       .367 G-s         61       .023 In/Sec       .099 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         In/Sec PK         Indicates Data Has Date/Time Different From Machine Date/Time         ited Last Measurement Summary         ***********************************
OVERALL LEVEL         1-20 KHz           51         .296 In/Sec         .212 G-s           51L         .221 In/Sec         .219 G-s         100.0 RPM           52         .236 In/Sec         .220 G-s         521         .239 In/Sec         .204 G-s           53         .116 In/Sec         .204 G-s         .367 G-s         .531         .023 In/Sec         .367 G-s           61         .141 In/Sec         .112 G-s         .611         .190 In/Sec         .099 G-s           81         .032 In/Sec         .049 G-s         .82         .067 In/Sec         .039 G-s           83         .024 In/Sec         .127 G-s         .127 G-s	OVERALL LEVEL         1-20 KHz           51         .296 In/Sec         .212 G-s           51L         .221 In/Sec         .219 G-s         100.0 RPM           52         .236 In/Sec         .220 G-s         52           52L         .239 In/Sec         .204 G-s         53           53         .116 In/Sec         .367 G-s           51L         .023 In/Sec         .367 G-s           61         .141 In/Sec         .112 G-s           61L         .190 In/Sec         .099 G-s           81         .032 In/Sec         .039 G-s           82         .067 In/Sec         .039 G-s           83         .024 In/Sec         .127 G-s
51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s       521       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s       .367 G-s       .367 G-s       .367 G-s         61       .023 In/Sec       .367 G-s       .367 G-s       .361 G-s       .367 G-s         61       .141 In/Sec       .112 G-s       .367 G-s       .367 G-s       .361 G-s         61       .141 In/Sec       .112 G-s       .367 G-s       .367 G-s       .367 G-s         61       .141 In/Sec       .112 G-s       .367 G-s       .361 G-s       .367 G-s         81       .032 In/Sec       .049 G-s       .383 .024 In/Sec       .039 G-s         82       .067 In/Sec       .039 G-s       .33       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK       .27 G-s       .27 G-s         Vel      > In/Sec       PK       .27 G-s       .28 G-s       .28 G-s         * - Indicates Data Has Date/Time Different From Machine Date/Time Data       .28 G-s       .28 G-s       .28 G-s         Station: <td< td=""><td>51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Ification Of Vibration Units:         5c      &gt; G-s       PK        &gt; In/Sec       PK        &gt; Station:       HYDROGEN</td></td<>	51       .296 In/Sec       .212 G-s         51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Ification Of Vibration Units:         5c      > G-s       PK        > In/Sec       PK        > Station:       HYDROGEN
51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK         Vel      > In/Sec       PK         Vel      > In/Sec       PK         Vel      > In/Sec       PK         ** - Indicates Data Has Date/Time Different From Machine Date/Time Pabbreviated Last Measurement Summary       ************************************	51L       .221 In/Sec       .219 G-s       100.0 RPM         52       .236 In/Sec       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .367 G-s         61       .141 In/Sec       .367 G-s         61       .141 In/Sec       .367 G-s         61L       .023 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Information Units:         bc      > G-s       PK         e1      > In/Sec       PK        > In/Sec       PK        > In/Sec       PK         Database:       Arkema.rbm         Station:       HYDROGEN         Route No.       1:       H2 MONTHLY         Beport Date:       01-Jul-21       13:14
52       .236 In/Sec       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK         Vel      > In/Sec       PK         Vel      > In/Sec       PK         ***********************************	52       .236 In/Sec       .220 G-s         52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Iffication Of Vibration Units:         cc      > G-s       PK         *1      > In/Sec       PK         *1       Station:       HYDROGEN         Route No.       1: H2 MONTHLY         Beport Date:       01-Jul-21       13:14
52L       .239 In/Sec       .204 G-s         53       .116 In/Sec       .367 G-s         53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units:         Acc      > G-s       PK         Vel      > In/Sec       PK         Vel      > In/Sec       PK         Vel> In/Sec PK         ***********************************	52L .239 In/Sec .204 G-s 53 .116 In/Sec .367 G-s 53L .023 In/Sec .367 G-s 61 .141 In/Sec .112 G-s 61L .190 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s 53 .024 In/Sec .127 G-s 54
<ul> <li>53 .116 In/Sec .367 G-s</li> <li>53L .023 In/Sec .367 G-s</li> <li>61 .141 In/Sec .112 G-s</li> <li>61L .190 In/Sec .099 G-s</li> <li>81 .032 In/Sec .049 G-s</li> <li>82 .067 In/Sec .039 G-s</li> <li>83 .024 In/Sec .127 G-s</li> </ul> Clarification Of Vibration Units: <ul> <li>Acc&gt; G-s PK</li> <li>Vel&gt; In/Sec PK</li> <li>* - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary</li> <li>************************************</li></ul>	53 .116 In/Sec .367 G-s 53 .023 In/Sec .367 G-s 61 .141 In/Sec .112 G-s 61 .190 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s 53 .024 In/Sec .127 G-s 54> G-s PK 54> In/Sec PK 55
53L       .023 In/Sec       .367 G-s         61       .141 In/Sec       .112 G-s         61L       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units: Acc         Acc      > G-s       PK         Vel      > In/Sec       PK         ***********************************	53L       .023 In/Sec       .367 G-S         61       .141 In/Sec       .112 G-S         61L       .190 In/Sec       .099 G-S         81       .032 In/Sec       .049 G-S         82       .067 In/Sec       .039 G-S         83       .024 In/Sec       .127 G-S         Ification Of Vibration Units:         cc      > G-S       PK         b1      > In/Sec       PK         b2       Station:       HYDROGEN         Station:       HYDROGEN         Route No.       1: H2 MONTHLY         Beport Date:       01-Jul-21       13:14
61 .141 In/Sec .112 G-s 61L .190 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s Clarification Of Vibration Units: Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	<ul> <li>61 .141 In/Sec .112 G-S</li> <li>61L .190 In/Sec .099 G-S</li> <li>81 .032 In/Sec .049 G-S</li> <li>82 .067 In/Sec .039 G-S</li> <li>83 .024 In/Sec .127 G-S</li> </ul> Finitiation of Vibration Units: <ul> <li>acc&gt; G-S PK</li> <li>bl&gt; In/Sec PK</li> </ul> Findicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary **********************************
bil       .190 In/Sec       .099 G-s         81       .032 In/Sec       .049 G-s         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units: Acc         Acc      > G-s       PK         Vel      > In/Sec       PK         * - Indicates Data Has Date/Time Different From Machine Date/Time Dibbreviated Last Measurement Summary       ************************************	<pre>bil .190 In/Sec .099 G-s 81 .032 In/Sec .049 G-s 82 .067 In/Sec .039 G-s 83 .024 In/Sec .127 G-s  ification Of Vibration Units: cc&gt; G-s PK bil&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
81       .032 IN/Sec       .049 G-S         82       .067 In/Sec       .039 G-s         83       .024 In/Sec       .127 G-s         Clarification Of Vibration Units: Acc         Acc      > G-s       PK         Vel      > In/Sec       PK         * - Indicates Data Has Date/Time Different From Machine Date/Time Date/Time Date/Time Date       Database: Arkema.rbm         Station:       HYDROGEN         Route No.       1:       H2 MONTHLY         Report Date:       01-Jul-21       13:14	<pre>81 .032 In/Sec .049 G-S 82 .067 In/Sec .039 G-S 83 .024 In/Sec .127 G-S ification Of Vibration Units: cc&gt; G-s PK el&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
33       .007 II/Sec       .003 G-S         83       .024 In/Sec       .127 G-S         Clarification Of Vibration Units: Acc         Acc      > G-s       PK         Vel      > In/Sec       PK         * - Indicates Data Has Date/Time Different From Machine Date/Time         Abbreviated Last Measurement Summary         ***********************************	<pre>82 .007 In/sec .039 G-S 83 .024 In/Sec .127 G-S ification Of Vibration Units: cc&gt; G-s PK el&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
Clarification Of Vibration Units: Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	<pre>ification Of Vibration Units: c&gt; G-s PK al&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
Clarification Of Vibration Units: Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	<pre>ification Of Vibration Units:</pre>
Clarification Of Vibration Units: Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	<pre>ification Of Vibration Units: cc&gt; G-s PK el&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
Acc> G-s PK Vel> In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary ************************************	<pre>cc&gt; G-s PK el&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
<pre>Vel&gt; In/Sec PK * - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary</pre>	<pre>el&gt; In/Sec PK - Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary</pre>
<pre>* - Indicates Data Has Date/Time Different From Machine Date/Time Abbreviated Last Measurement Summary</pre>	- Indicates Data Has Date/Time Different From Machine Date/Time ated Last Measurement Summary ************************************
MEASUREMENT POINT OVERALL LEVEL HFD / VHFD MACHINE SPEEL	Report Date. VI but ZI ID.II
	EMENT POINT OVERALL LEVEL HFD / VHFD MACHINE SPEED
P2A – PUMP MEA CIRC WEST P2A (30-Jun-21)	- PUMP MEA CIRC WEST P2A (30-Jun-21)
OVERALL LEVEL 1-20 KHz	
11 .088 In/Sec .093 G-s 3585.0 RPM	OVERALL LEVEL 1-20 KHz
21 .057 In/Sec .122 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM
23 .049 In/Sec .076 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s         .122 G-s
71 .211 In/Sec .180 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s         .23         .049 In/Sec         .076 G-s
72 .177 In/Sec .469 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s         .           23         .049 In/Sec         .076 G-s         .           71         .211 In/Sec         .180 G-s         .
$P1\Delta = PIIMP REW WEST P1\Delta (3071)$	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
OVERALL LEVEL 1-20 KHZ	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s         .           23         .049 In/Sec         .076 G-s         .           71         .211 In/Sec         .180 G-s         .           72         .177 In/Sec         .469 G-s         .
	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
21 .132 Tn/Sec .207 G-S 5000.0 RFM	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
23     .187 In/Sec     .334 G-s       71     .100 In/Sec     .929 G-s       72     112 In/Sec     .571 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
23       .187 In/Sec       .334 G-s         71       .100 In/Sec       .929 G-s         72       .112 In/Sec       .571 G-s         81       144 In/Sec       .804 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
23       .187 In/Sec       .334 G-s         71       .100 In/Sec       .929 G-s         72       .112 In/Sec       .571 G-s         81       .144 In/Sec       .804 G-s         82       .139 In/Sec       .656 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s
23       .187 In/Sec       .334 G-s         71       .100 In/Sec       .929 G-s         72       .112 In/Sec       .571 G-s         81       .144 In/Sec       .804 G-s         82       .139 In/Sec       .656 G-s         83       060 In/Sec       1 214 G-s	OVERALL LEVEL         1-20 KHz           11         .088 In/Sec         .093 G-s         3585.0 RPM           21         .057 In/Sec         .122 G-s

	OVERALL LEVE	L 1-20 KHz	
11	.397 In/Sec	.227 G-s	3600.0 RPM
21	.333 In/Sec	.299 G-s	
23	.248 In/Sec	.095 G-s	
71	.240 In/Sec	2 1.899 G-s	
81	.267 In/Sec	2 1.470 G-s	
C1	- ID -BLOWER C1	(30-Jun-21)	
	OVERALL LEVE	L 1-20 KHz	
11	.075 In/Sec	.186 G-s	1800.0 RPM
21	.094 In/Sec	.367 G-s	
23	.180 In/Sec	.531 G-s	
71	.074 In/Sec	.709 G-s	
72	.046 In/Sec	.496 G-s	
81	.155 In/Sec	.558 G-s	
82	.150 In/Sec	.685 G-s	
CTPE	- EAST COOLING TOWER PUN	IP (30-Jun-21)	
	OVERALL LEVE	L 1-20 KHz	
11	.167 In/Sec	2 1.454 G-s	1750.0 RPM
21	.122 In/Sec	.533 G-s	
23	.179 In/Sec	.885 G-s	
71	.135 In/Sec	.687 G-s	
72	.313 In/Sec	.813 G-s	
CTPW	- WEST COOLING TOWER PUN	IP (30-Jun-21)	
	OVERALL LEVE	L 1-20 KHz	
11	.053 In/Sec	.804 G-s	1750.0 RPM
21	.057 In/Sec	.516 G-s	
23	.157 In/Sec	.497 G-s	
71	.261 In/Sec	.889 G-s	
72	.118 In/Sec	.913 G-s	
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