

April 21, 2020

ARKEMA

Subject: April week 3 vibration service report

Weekly Equipment

C Concentrator Vacuum Pump 2130-1

The pump axial vibration is good; the outboard radial is steady at 0.182"/sec velocity. No action is required.

Agitator, Hydrogenator C 7001-01

Vibrations have dropped considerably since last week. Motor speed was read to be 1332 RPM during data collection this survey. The highest vibrations were in the motor horizontals and gearbox top horizontal and were only just over 0.12 and 0.1"/sec velocity peak respectively. Motor still shows slight fluting in the bearings. **Motor is rated a Class I Defect.**

A/B Concentrator Vacuum Pump 57

Overall vibrations have increased for the outboard pump bearing and is at 0.303"/sec velocity peak, at what looks to be mostly vane pass. We must note; however, that the vibration changes constantly as the vacuum breaks, so the overall reading and the data could change significantly during a short period of time. No immediate action is required at this time. **Rated a Class I Defect**.

Flash Vacuum Pump 2130-1

Vibrations appear to be normal this survey. No actions required.

Air Compressor C-201

Rotor bar vibrations are low. 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. We will continue to monitor this unit for changes No actions required.

Air Compressor C-202

Rotor bar vibrations have risen to 4.1g's RMS. The trend clearly shows that the vibrations vary considerably over time. We have added 1-20 KHz acceleration overalls to all the compressor measurements and found the outboard male shaft bearing horizontal at 9.7 g's RMS for this unit. This could be a concern. We will watch this unit closely for changes. No immediate actions required at this time; however, we will increase the **Defect Rating to a Class II** for now.

Air Compressor C-203

Rotor bar vibrations are up a little to 4.4 g's RMS radial. 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. No actions required.

Instrument Air Compressor new

Vibration appeared to be about normal at 0.232"/sec velocity peak for the female shaft. New acceleration overalls show 7 g's RMS for the male shaft this survey. **Rated a Class I Defect.**

Air Compressor NASH A 201-08A

Vibrations are still down in the motor after the foot bolts were tightened. We recommend a complete cleaning and relubrication of all the foot bolts for the motor and vacuum pump. Pump vibrations are mixed. Check the pump bearing large flange bolts also. Check both shafts for excessive clearance with a lift check and finish with a shaft alignment. The pump is under 0.3"/sec velocity peak, so the unit is **Rated a Class I Defect this survey.**

D Hydrogenator Agitator 9002-10

Vibration data shows a slight change in vibrations this survey. Highest amplitude is at 0.294"/sec velocity peak for the gearbox top E/W measurement. **Still rated a Class I Defect.**

Route Monthly Equipment

Check and inspect the following cooling tower drivetrains.

North cooling tower- South fan South cooling tower-North fan and South fan

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 Specialist dshook@gohispeed.com *Hi-Speed* Industrial Service

Abbreviated Last Measurement Summary ********

Database: Arkema.rbm Station: PEROXIDE
Route No. 5: ARK WK 3
Report Date: 21-Apr-20 07:12

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
2130-1old - C Concentrator Vacuum Pump	(20-Apr-20)	4 00
44	OVERALL LEVEL	1-20 KHz
11 - Motor OB HOR	.072 In/Sec	.512 G-s
21 - Motor IB HOR	.075 In/Sec	.414 G-s
23 - Motor IB AXIAL	.109 In/Sec	.249 G-s
71 - Compressor IB HOR	.098 In/Sec	1.684 G-s
81 - Compressor OB Horiz	.182 In/Sec	.693 G-s
83 - Compressor OB Axial	.104 In/Sec	1.478 G-s
7000-01 - AGITATOR, HYDROGENATOR C	(20-Apr-20)	
	OVERALL LEVEL	1-20 KHZ
01 - DRIVESHAFT BRG-NORTH-SOUTH	.052 In/Sec	.033 G-s
02 - DRIVESHAFT BRG-EAST-WEST	.040 In/Sec	.044 G-s
03 - DRIVESHAFT BRG-VERTICAL	.053 In/Sec	.026 G-s
11 - C Hydro Agitator MOTOR OB HORIZ	.127 In/Sec	1.069 G-s
12 - C Hydro Agitator MOTOR OB VERT	.069 In/Sec	.583 G-s
13 - C Hydro Agitator Motor OB Axial	.072 In/Sec	.370 G-s
21 - C Hydro Agitator MOTOR IB HORIZ	.106 In/Sec	.913 G-s
22 - C Hydro Agitator MOTOR IB VERT	.083 In/Sec	.565 G-s
23 - C Hydro Agitator Motor IB Axial	.081 In/Sec	.350 G-s
31 - C Hydro Agitator GrBx In Horizon	.097 In/Sec	.665 G-s
32 - C Hydro Agitator GrBx In VERT	.078 In/Sec	.779 G-s
33 - C Hydro Agitator GrBx In Axial	.059 In/Sec	.436 G-s
41 - C Hydro Agitator GrBx Top HZ E-W	.102 In/Sec	.521 G-s
42 - C Hydro Agitator GrBx TOP HZ N-S	.036 In/Sec	.514 G-s
51 - C Hydro Agitator GrBx BOT HZ E-W	.029 In/Sec	.258 G-s
52 - C Hydro Agitator GrBx BOT HZ N-S	.022 In/Sec	.682 G-s
53 - C Hydro Agitator GrBx Top Axial	.055 In/Sec	.532 G-s
53L - C Hydro Agitator GrBx Top Axial	.057 In/Sec	.503 G-s
57 - A/B Concentr Vac Pmp-var RPM	(20-Apr-20)	
	OVERALL LEVEL	1-20 KHz
11 - Motor OB HOR	.052 In/Sec	.264 G-s
12 - Motor OB VERT	.065 In/Sec	.247 G-s
21 - Motor IB HOR	.067 In/Sec	.368 G-s
23 - Motor IB AXIAL	.070 In/Sec	.141 G-s
71 - Compressor IB HOR	.143 In/Sec	.528 G-s
81 - Compressor OB Horiz	.303 In/Sec	.520 G-s
83 - Compressor OB Axial	.053 In/Sec	.791 G-s
		
2130-1 - FLASH VAP VAC PUMP-var speed	(20-Apr-20)	
	OVERALL LEVEL	1-20 KHz
11 - Motor OB HOR	.038 In/Sec	.339 G-s
12 - Motor OB VERT	.044 In/Sec	.560 G-s
21 - Motor IB HOR	.039 In/Sec	1.596 G-s

22 - Motor IB VERT	.046 In/Sec	.753 G-s
23 - Motor IB AXIAL	.059 In/Sec	.366 G-s
71 - Compressor IB HOR	.070 In/Sec	.313 G-s
72 - Compressor IB VERT	.076 In/Sec	.484 G-s
81 - Compressor OB Horiz	.082 In/Sec	.219 G-s
82 - Compressor OB VERT	.089 In/Sec	
83 - Compressor OB Axial	.043 In/Sec	.425 G-s
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C-203 - C-203 Comp	(20-Apr-20)	
C 203 C 203 C 200		1-20 KH-
11 - MOTOR OB HOR	OVERALL LEVEL .112 In/Sec	4.481 G-s
12 - MOTOR OB VERT	.063 In/Sec	
21 - MOTOR IB HOR	· · · · · · · · · · · · · · · · · · ·	
	.081 In/Sec	3.064 G-S
22 - MOTOR IB VERT	.065 In/Sec .064 In/Sec	2.054 G-s
23 - MOTOR IB AXIAL		
	OVERALL LEVEL	
71M - COMP MALE SHAFT IB HOR	.036 In/Sec .053 In/Sec	1.246 G-s
72M - COMP MALE SHAFT IB VERT		
73M - COMP MALE SHAFT IB AXIAL	.061 In/Sec	1.595 G-s
81M - COMP MALE SHAFT OB HOR	.056 In/Sec .057 In/Sec	2.589 G-s
82M - COMP MALE SHAFT OB VERT	.057 In/Sec	1.857 G-s
71F - COMP FEMALE SHAFT IB HOR	.042 In/Sec	2.625 G-s
72F - COMP FEMALE SHAFT IB VERT	.072 In/Sec	2.530 G-s
73F - COMP FEMALE SHAFT IB AXIAL	.068 In/Sec	2.604 G-s
81F - COMP FEMALE SHAFT OB HOR	.048 In/Sec	1.781 G-s
82F - COMP FEMALE SHAFT OB VERT	.046 In/Sec	1.387 G-s
C-202 - C-202 Comp	(20-Apr-20)	
	OVERALL LEVEL	1-20 KHz
11 - MOTOR OB HOR	.035 In/Sec	.315 G-s
12 - MOTOR OB VERT	.114 In/Sec	.690 G-s
21 - MOTOR IB HOR	.056 In/Sec	.295 G-s
22 - MOTOR IB VERT	.129 In/Sec	4.179 G-s
23 - MOTOR IB AXIAL	.043 In/Sec	.333 G-s
	OVERALL LEVEL	1-20 KHZ
71M - COMP MALE SHAFT IB HOR	.044 In/Sec	2.381 G-s
72M - COMP MALE SHAFT IB VERT	.045 In/Sec	1.434 G-s
73M - COMP MALE SHAFT IB AXIAL	.045 In/Sec .085 In/Sec	1.328 G-s
81M - COMP MALE SHAFT OB HOR	.045 In/Sec	2.214 G-s
82M - COMP MALE SHAFT OB VERT	.052 In/Sec	1.836 G-s
71F - COMP FEMALE SHAFT IB HOR	.052 In/Sec .037 In/Sec	2.004 G-s
72F - COMP FEMALE SHAFT IB VERT	.050 In/Sec	
73F - COMP FEMALE SHAFT IB AXIAL	.060 In/Sec	
81F - COMP FEMALE SHAFT OB HOR	.043 In/Sec	
82F - COMP FEMALE SHAFT OB VERT	.055 In/Sec	1.269 G-s
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C-201 - C-201 Comp	(20-Apr-20)	
•	OVERALL LEVEL	1-20 KHz
11 - MOTOR OB HOR	.083 In/Sec	
12 - MOTOR OB VERT		
21 - MOTOR IB HOR	.089 In/Sec .111 In/Sec	.405 G-s .339 G-s
22 - MOTOR IB VERT	.034 In/Sec	
23 - MOTOR IB AXIAL		
20 MOTON ID IMITAL	.078 In/Sec OVERALL LEVEL	1-20 KHZ
71M - COMP MALE SHAFT IB HOR	.044 In/Sec	1.721 G-s
72M - COMP MALE SHAFT IB HOR 72M - COMP MALE SHAFT IB VERT	.039 In/Sec	
73M - COMP MALE SHAFT IB AXIAL	.063 In/Sec	
/3M - COMP MALE SHAFT IB AXIAL	.003 In/Sec	1.230 G-S

81M - COMP MALE SHAFT OB HOR	.060 In/Sec	4.113 G-s
82M - COMP MALE SHAFT OB VERT	.057 In/Sec	2.576 G-s
71F - COMP FEMALE SHAFT IB HOR	.049 In/Sec	2.147 G-s
72F - COMP FEMALE SHAFT IB VERT	.049 In/Sec	1.427 G-s
73F - COMP FEMALE SHAFT IB AXIAL	.046 In/Sec	1.662 G-s
81F - COMP FEMALE SHAFT OB HOR	.066 In/Sec	3.440 G-s
82F - COMP FEMALE SHAFT OB VERT	.073 In/Sec	2.754 G-s
new AC - INSTRUMENT AIR COMPRESSOR	• •	1 00 ****-
11 NOTED OF TOP	OVERALL LEVEL	
11 - MOTOR OB HOR 12 - MOTOR OB VERT	.115 In/Sec .119 In/Sec	.589 G-s .801 G-s
12 - MOTOR OB VERT 13 - MOTOR OB AXIAL	.067 In/Sec	.102 G-s
21 - MOTOR UB HOR	.211 In/Sec	
22 - MOTOR IB VERT	.082 In/Sec	.412 G-s
23 - MOTOR IB AXIAL	.063 In/Sec	.309 G-s
25 HOTOK 1D IMITED	OVERALL LEVEL	
71F - COMP FEMALE SHAFT IB HOR	.169 In/Sec	5.524 G-s
72F - COMP FEMALE SHAFT IB VERT	.139 In/Sec	3.195 G-s
73F - COMP FEMALE SHAFT IB AXIAL	.157 In/Sec	
	.138 In/Sec	
82F - COMP FEMALE SHAFT OB VERT	.235 In/Sec	5.290 G-s
83F - COMP FEMALE SHAFT OB AXIAL	.235 In/Sec .132 In/Sec	3.030 G-s
71M - COMP MALE SHAFT IB HOR	.102 In/Sec	
72M - COMP MALE SHAFT IB VERT	.148 In/Sec	3.641 G-s
73M - COMP MALE SHAFT IB AXIAL	.148 In/Sec .124 In/Sec	3.460 G-s
81M - COMP MALE SHAFT OB HOR	.179 In/Sec	
82M - COMP MALE SHAFT OB VERT	.209 In/Sec	2.148 G-s
83M - COMP MALE SHAFT OB AXIAL	.232 In/Sec	7.375 G-s
201-08A - COMPRESSOR, NASH A 201-08A	(20-Apr-20)	
	OVERALL LEVEL	
11 - Nash Compr A Motor OB Horiz	OVERALL LEVEL .075 In/Sec	.162 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical	OVERALL LEVEL .075 In/Sec .083 In/Sec	.162 G-s .111 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec	.162 G-s .111 G-s .067 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti 73 - Nash Compr A COMP IB AXIAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A Compressor IB Verti 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20)	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .1166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A COMPOB HORIZ 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .169 In/Sec .118 In/Sec .118 In/Sec .153 In/Sec .153 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec .071 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A COMPOB HORIZ 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec .071 In/Sec .050 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .081 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .169 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .158 In/Sec .158 In/Sec .158 In/Sec .159 In/Sec .010 In/Sec .010 In/Sec .050 In/Sec .050 In/Sec .050 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .081 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - motor inboard axial 31 - GEARBOX INPUT SHAFT -HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec .050 In/Sec .220 In/Sec OVERALL LEVEL .194 In/Sec	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .081 G-s .710 G-s 1-20 KHZ .665 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - motor inboard axial 31 - GEARBOX INPUT SHAFT -HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .169 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec .050 In/Sec .220 In/Sec OVERALL LEVEL .194 In/Sec OVERALL LEVEL	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .081 G-s .710 G-s 1-20 KHZ .665 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - motor inboard axial 31 - GEARBOX INPUT SHAFT -HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .169 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec (20-Apr-20) OVERALL LEVEL .087 In/Sec .050 In/Sec .220 In/Sec OVERALL LEVEL .194 In/Sec OVERALL LEVEL	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .081 G-s .710 G-s 1-20 KHZ .665 G-s
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - motor inboard axial 31 - GEARBOX INPUT SHAFT -HORIZONTAL 31L - GEARBOX INPUT SHAFT-N-S-LOW FRQ	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec .158 In/Sec .071 In/Sec .071 In/Sec .050 In/Sec .220 In/Sec OVERALL LEVEL .194 In/Sec OVERALL LEVEL .271 In/Sec OVERALL LEVEL	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .710 G-s 1-20 KHZ .665 G-s 1-20 KHZ .221 G-s 1-20 KHZ
11 - Nash Compr A Motor OB Horiz 12 - Nash Compr A Motor OB Vertical 13 - Nash Compr A Motor OB Axial 21 - Nash Compr A Motor IB Horiz 22 - Nash Compr A Motor IB VERT 23 - Nash Compr A Motor IB AXIAL 71 - Nash Compr A COMP IB HORIZ 72 - Nash Compr A COMP IB HORIZ 73 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP IB AXIAL 81 - Nash Compr A COMP OB HORIZ 82 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Verti 83 - Nash Compr A Compressor OB Axial 9002-10 - D-HYDROGENATOR AGITATOR 11 - MOTOR OUTBOARD HORIZONTAL 21 - MOTOR INBOARD HORIZONTAL 23 - motor inboard axial 31 - GEARBOX INPUT SHAFT -HORIZONTAL	OVERALL LEVEL .075 In/Sec .083 In/Sec .169 In/Sec .087 In/Sec .118 In/Sec .118 In/Sec .166 In/Sec .153 In/Sec .240 In/Sec .165 In/Sec .162 In/Sec .162 In/Sec .284 In/Sec .158 In/Sec .158 In/Sec .071 In/Sec .071 In/Sec .050 In/Sec .220 In/Sec OVERALL LEVEL .194 In/Sec OVERALL LEVEL .271 In/Sec OVERALL LEVEL	.162 G-s .111 G-s .067 G-s .145 G-s .175 G-s .095 G-s .603 G-s .981 G-s .281 G-s .626 G-s .676 G-s .359 G-s 1-20 KHz .089 G-s .102 G-s .710 G-s 1-20 KHZ .665 G-s 1-20 KHZ .221 G-s 1-20 KHZ

	- GEARBOX TOP PLATE- N-S	OVERALL LEVEL	1-20 KHz
52	- GEARBOX TOP PLATE- N-S	.218 in/Sec	.254 G-S
		OVERALL LEVEL	1-20 KHZ
52L	- GEARBOX OUTPUT SHAFT-E-W-LOW FRQ	.243 In/Sec OVERALL LEVEL .184 In/Sec	.258 G-s
		OVERALL LEVEL	1-20 KHz
	- GEARBOX OUTPUT SHAFT -VERTICAL	.184 In/Sec	.707 G-s
61	- GEARBOX OUTPUT SHAFT-HORIZONTAL	.225 In/Sec OVERALL LEVEL .192 In/Sec	.109 G-s
		OVERALL LEVEL	1-20 KHZ
61L	- GEARBOX OUTPUT SHAFT-E-W-LOW FRQ	.192 In/Sec	.111 G-s
		OVERALL LEVEL	1-20 KHz
81	- AGIT INTERMED BRG @ SEAL- N-S	.040 In/Sec .044 In/Sec	.023 G-s
82	- AGIT INTERMED BRG @ SEAL- N-S - AGIT INTERMED BRG @ SEAL- E-W	.044 In/Sec	.047 G-s
83	- AGIT INTERMED BRG @ SEAL- VERT	.041 In/Sec	.218 G-s
NTC-	-SF - N CT-SOUTH FAN, N TWR	(20-Apr-20)	
		OVERALL LEVEL	1-20 KHz
1	- MOTOR OB HORIZ	.284 In/Sec	.636 G-s
	- MOTOR IB HORIZ	.284 In/Sec .227 In/Sec .134 In/Sec OVERALL LEVEL .124 In/Sec	.716 G-s
	- MOTOR IB AXIAL	.134 In/Sec	.669 G-s
_		OVERALL LEVEL	1-20 KHZ
4	- GEARBOX INPUT HORIZONTAL - GEARBOX VERTICAL - GEARBOX AXIAL - GEARBOX AXIAL LOW FREQ	124 Tn/Sec	316 G-e
5	- CEARROY VERTICAL	0034 Tn/Sec	0010 G-s
6	- CEADROY AVIAI	110 Tn/Sec	304 G-s
6T	- CEADDON ANIAL LOW EDEO	127 In/Sec	.304 G-S
ОП	- GEARDOX AXIAL LOW FREQ	.127 III/Sec	.310 G-S
мст	- NF - N CT -NORTH FAN, N TWR	(20-720)	
NCI	- NF - N CI -NORTH PAN, N IWR	(20-Apr-20)	1 20 1711-
-	WOMOD OD WODIE	OVERALL LEVEL	1-20 KHZ
	- MOTOR OB HORIZ - MOTOR IB HORIZ	.093 In/Sec .091 In/Sec	.316 G-S
9	- MOTOR IB AXIAL - GEARBOX INPUT HORIZONTAL - GEARBOX VERTICAL	.094 In/Sec	.243 G-s
		OVERALL LEVEL	1-20 KHZ
10	- GEARBOX INPUT HORIZONTAL	.144 In/Sec	.156 G-s
11	- GEARBOX VERTICAL	.097 In/Sec	.161 G-s
12	- GEARBOX AXIAL	.094 In/Sec	.182 G-s
530-	-02 - PUMP, N. COOLING TWR, MIDDLE	(20-Apr-20)	
		OVERALL LEVEL	1-20 KHz
	- MOT TOP N-S	.107 In/Sec	.391 G-s
12	- MOTOR TOP E-W	.135 In/Sec	.329 G-s
530-	-03 - PUMP, N. COOLING TWR, SOUTH	(20-Apr-20)	
		OVERALL LEVEL	1-20 KHz
	- MOT TOP N-S	.099 In/Sec	
12	- MOTOR TOP E-W	.157 In/Sec	.393 G-s
548-	-7 - IRON-FREE H2O BOOSTER PUMP	(20-Apr-20)	
		OVERALL LEVEL	1-20 KHz
11	- MOTOR OUTBOARD HORIZONTAL	.030 In/Sec	.285 G-s
	- MOTOR INBOARD HORIZONTAL	.032 In/Sec	.423 G-s
	- MOTOR INBOARD AXIAL	.041 In/Sec	
_	- PUMP HORIZONTAL	.077 In/Sec	.050 G-s
	- PUMP VERTICAL	.077 In/Sec .035 In/Sec	.078 G-s
	·		5
STC-	-NF - S CT - NORTH FAN, S TWR	(20-Apr-20)	
210	LI O OI MONIE IIM, O IMA	OVERALL LEVEL	1-20 KH2
1	- MOTOR OB HORIZ	.319 In/Sec	274 G-c
	- MOTOR OB HORIZ	.259 In/Sec	
_	MOTOR ID HORIZ	.239 III/3ec	.1/3 G-S

3	- MOTOR IB AXIAL	.158 In/Sec	
		OVERALL LEVEL	1-20 KHZ
4	- GEARBOX INPUT HORIZONTAL	.155 In/Sec	.499 G-s
6	- GEARBOX AXIAL	.185 In/Sec	.370 G-s
STC-	MF - S CT - MID FAN, S TWR	(20-Apr-20)	
	•	OVERALL LEVEL	1-20 KHz
1	- MOTOR OB HORIZ	.252 In/Sec	.496 G-s
2	- MOTOR IB HORIZ	.238 In/Sec	
3	- MOTOR IB AXIAL	.161 In/Sec	.225 G-s
3	HOTOR ID IMITE	OVERALL LEVEL	1-20 KHZ
4	- GEARBOX INPUT HORIZONTAL	.118 In/Sec	.426 G-s
5	- GEARBOX VERTICAL	.106 In/Sec	.549 G-s
6	- GEARBOX AXIAL	.106 In/Sec	
O	- GEARDOX AXIAL	.100 III/Sec	.311 G-S
СШС	CE COM COUNT EAN COME	(20 3 20)	
SIC-	SF - S CT - SOUTH FAN, S TWR	OVERALL LEVEL	1 20 211-
1	MOMOD OD HODER	.296 In/Sec	
_	- MOTOR OB HORIZ		.358 G-s .212 G-s
_	- MOTOR IB HORIZ	.307 In/Sec	
3	- MOTOR IB AXIAL	.286 In/Sec	.090 G-s
		OVERALL LEVEL	
	- GEARBOX INPUT HORIZONTAL	.180 In/Sec .209 In/Sec	.533 G-s
	- GEARBOX VERTICAL		
6	- GEARBOX AXIAL	.285 In/Sec	.510 G-s
SCT-	1 - SOUTH CT PUMP - EAST	(20-Apr-20)	
		- ·	1-20 KHz
		- ·	1-20 KHz .450 G-s
	1 - SOUTH CT PUMP - EAST - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL	- ·	1-20 KHz .450 G-s .763 G-s
11 21		OVERALL LEVEL .048 In/Sec .053 In/Sec	.450 G-s .763 G-s
11 21 23	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec	.450 G-s .763 G-s
11 21 23 71	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL	OVERALL LEVEL .048 In/Sec .053 In/Sec	.450 G-s .763 G-s
11 21 23 71	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s
11 21 23 71 72	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20)	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s
11 21 23 71 72	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s
11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s
11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s
11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s
11 21 23 71 72 SCT- 11 21 23	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s 1-20 KHz .842 G-s .378 G-s
11 21 23 71 72 SCT- 11 21 23 71	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s 1-20 KHz .842 G-s .378 G-s .330 G-s
11 21 23 71 72 SCT- 11 21 23 71	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec .102 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s 1-20 KHz .842 G-s .378 G-s .330 G-s .492 G-s
11 21 23 71 72 SCT- 11 21 23 71 72	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20)	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s
11 21 23 71 72 SCT- 11 21 23 71 72	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .102 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .102 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2 - SOUTH CT PUMP - MID - MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP WERTICAL 3 - SOUTH CT PUMP - WEST	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .102 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL .037 In/Sec .057 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT-	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .102 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL .037 In/Sec .057 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT- 11 21 23	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL .037 In/Sec .057 In/Sec .083 In/Sec	.450 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s .1-20 KHz 1.840 G-s .972 G-s .692 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT- 11 21 23 71	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL .037 In/Sec .057 In/Sec .083 In/Sec .176 In/Sec	.450 G-s .763 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s .1-20 KHz 1.840 G-s .972 G-s .692 G-s .845 G-s
11 21 23 71 72 SCT- 11 21 23 71 72 SCT- 11 21 23	- MOTOR OUTBOARD HORIZONTAL - MOTOR INBOARD HORIZONTAL - MOTOR INBOARD AXIAL - PUMP HORIZONTAL - PUMP VERTICAL 2	OVERALL LEVEL .048 In/Sec .053 In/Sec .054 In/Sec .177 In/Sec .086 In/Sec (20-Apr-20) OVERALL LEVEL .028 In/Sec .110 In/Sec .059 In/Sec .102 In/Sec .106 In/Sec (20-Apr-20) OVERALL LEVEL .037 In/Sec .057 In/Sec .083 In/Sec	.450 G-s .763 G-s .763 G-s .153 G-s .378 G-s .838 G-s .838 G-s .842 G-s .378 G-s .330 G-s .492 G-s .689 G-s .1-20 KHz 1.840 G-s .972 G-s .692 G-s .845 G-s

Clarification Of Vibration Units:

Acc --> G-s PK
Vel --> In/Sec PK