HI-SPEED INDUSTRIAL SERVICE QualiTest® Diagnostics

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July 29, 2024

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USG-Greenville
Greenville, MS

Terry,

The following is a summary of findings from the July 2024 monthly vibration survey at the USG Greenville, MS Plant. Please note that we have added an abbreviated last measurement report which is at the end of this report.

QualiTest® uses a four-step rating system for defects.

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

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

Class III; 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.

Class IV; 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

Defects

Perlite

#5 Combustion Blower
Machine was not in service during survey; however, the following most likely still applies: A high sub-synchronous vibration remains in the motor axial. This may be a harmonic of belt frequency. Check belts and sheaves for wear and misalignment soon. Rated as a **CLASS III** defect.

#6 Combustion Blower
Axial data shows a dominant 1 x fan rpm vibration. 1-4 x rpm vibration that can still be seen in all fan spectral data is likely due to a combination of issues such as bent or worn fan shaft and internal fan bearing fit looseness/wear. Inspect fan bearings for looseness by performing a lift check of the fan shaft. Should not have more than .003" lift max. Inspect fan shaft for run-out as well. Rated as a **CLASS II** defect.

#8 Combustion Blower
Machine was not in service during survey; however, the following most likely still applies: 1/3 rpm harmonics are present in the fan spectra. This signifies looseness of the fits l(likely shaft or bearing fit wear). Check fan bearings/shaft for looseness and wear as scheduling allows. Rated as a **CLASS II** defect.

#5 Expander Dust Collector
Machine was not in service during survey; however, the following most likely still applies: Motor has elevated 1 x rpm vibration at motor rpm. This is likely a sheave issue or could also be a base issue. Check sheave alignment ensuring sheaves are aligned properly for offset and angularity. Check face run-out on motor sheave. There should not be no more than .003" face run-out. Check all fasteners and ensure motor base is not defective. Rated as a **CLASS II** defect.

#6 Expander Dust Collector
Fan continues to have high vibration. Axial data shows a dominant 2 x fan rpm vibration. 1-4 x rpm vibration that can still be seen in all fan spectral data is likely due to a combination of issues such as bent or worn fan shaft and internal fan bearing fit looseness/wear. Inspect fan bearings for looseness by performing a lift check of the fan shaft. Should not have more than .003" lift max. Inspect fan shaft for run-out as well. There is also deteriorated grout around the fan base. Base needs to be re-grouted in the near future. Rated as a **CLASS III** defect.

#7 Expander Dust Collector
Machine was not in service during survey; however, the following most likely still applies: Motor has a beat vibration that appears to be near motor/fan rpm. This may be sheave/belt related**.** Check sheaves and belts for wear and misalignment and check all base fasteners. Check angularity and offset alignment. Rated as a **CLASS II** defect.

#8 Expander Dust Collector
Machine was not in service during survey; however, the following most likely still applies: A trim balance was performed earlier this month. We were unable to lower vibration to an acceptable spec. Fan data shows a 1 x and 2 x rpm vibration especially at the fan axial. There are some 3-6 x rpm peaks present as well. We performed shaft run-out checks and also performed lift checks on the fan shaft. We found no signs of shaft looseness or excessive run-out. However, there may be an issue with fan wheel itself. Cracks in the wheel or hub can cause this type of vibration and may explain why we were having issue with the phase angle staying steady during our balance. It is recommended to perform a thorough inspection of the fan wheel/ hub. The inlet piping will likely need to be removed to gain access to the wheel for inspection. Rated as a **CLASS II** defect.

Hydropulper
Gearbox and motor have elevated vibration. Gearbox spectral data shows gear mesh harmonics with sidebands of output rpm indicating wear in the gearbox. There may also be an issue with the fluid coupling assembly. Gearbox base was still flexing some during data collection. Gearbox and coupling assembly will need attention soon. Rated as a **CLASS III** defect.

Mix-up/Reclaim

#1 White Water Loop Pump
Motor data shows signs of bearing defects on the ODE motor bearing. Motor will need attention in the next few months. Rated as a **CLASS II** defect.

Dump Chest Agitator
Motor was not running this survey; however, the following likely still applies: Overall vibration has been lower the past few surveys; however, this survey, the motor has an internal knocking vibration. Amplitudes are still low, but the presence of this knocking is concerning. Data shows the vibration to be synchronous to motor rpm. For now, inspect the coupling and the motor as soon as time allows. Rated as a **CLASS II** defect.

#1 White Water Loop Pump
Motor has some high vibration that is sub-synchronous to motor rpm. The sub-synchronous vibration could be belt related or pump sheave related. Check sheaves and belts ensuring belts are tightened properly and sheaves have minimal angular and offset misalignment. Rated as a **CLASS II** defect.

White Water Mix-up Pump
Motor was not running this survey; however, the following likely still applies: New motor has some slight vibration related to belts and sheaves. Belts are also slipping. Check sheaves and belts ensuring belts are tightened properly and sheaves have minimal angular and offset misalignment. Rated as a **CLASS II** defect.

Beater Tank Transfer Pump
Motor was not running this survey; however, the following likely still applies: The motor data shows motor to have bearing defects. There are two pumps by the beater. This motor is the newer looking motor with the newer pump. Motor needs to swapped out as time allows. Rated as a **CLASS II** defect.

Fiberglass

#1 Oven Circ. Fan
The motor and fan inboard side has high vibration at fan speed. This may be due to some type of sheave issue and/or structural flexibility. Inspect sheaves and belts soon. Ensure sheaves do not have face run-out and offset and angularity alignment is good. Ensure belts are tensioned properly. Rated as **CLASS II** defect.

#2 Oven Circ Fan
Data shows some 1, 2, and 3 x rpm vibrations present in the fan. The motor also has high vibration at 1 x fan rpm. Fan bearing fits may be bad and fan shaft may be bent and or worn. Fan may also have some imbalance due to build-up on fan blades. Rated as a **CLASS II** defect.

Board Line 3

Vacuum Pump MOTORS (2, and 3)
We are still seeing some mid to high frequency noise floor in the motor spectra on the vac pump motors. This issue appears to be stable; however, we suspect possible fluting of the motor bearings may be starting to develop. This is a common issue with AC motors being operated by VFD's that do not having grounding protection. We recommend installing an Aegis Grounding ring inside the motor at the drive end and installing an insulated bearing on the outboard end of the motor. **Rated as CLASS I defect.**

#3 Vacuum Pump
DE pump bearing spectral data continues to show defects are present in the DE pump bearing. We will continue to monitor this closely. Rated as a **CLASS III** defect.

Wet End Combustion Blower
Blower bearings are trending upward on defect frequency vibration. Acceleration has had a steady increase in amplitude. These are signs of bearing defects/wear. Bearings should be scheduled for replacement as soon as scheduling allows**.** Rated as a **CLASS II** defect.

White Water Pump (outside)
Motor/Pump base is loose to concrete and is causing a high vertical vibration at 12 Hz which appears to be pump speed. Base needs to be anchored soon. Rated as a **CLASS II** defect.

Wet End Circulation Fan
New motor looks good as far as vibration goes. Fan still has some slight 1 x rpm vibration likely due to fan imbalance. A trim balance may be needed in the future. Rated as a **CLASS I** defect.

Finishing

Blue Oven 1 Zone 1 Circulation Fan 1
Fan end fan bearing (outboard) data is showing signs of defects/wear. Motor and fan also have some 1 x rpm vibrations. Fan bearings will need attention soon. Also, ensure sheaves are aligned properly and belts are in good shape and properly tightened. Rated as a **CLASS II** defect.

Blue Oven 1 Zone 1 Circulation Fan 2
Fan end fan bearing (outboard) data is showing signs of defects/wear. Motor and fan also have some 1 x rpm vibrations. Fan bearings will need attention soon. Also, ensure sheaves are aligned properly and belts are in good shape and properly tightened. Rated as a **CLASS II** defect.

Blue Oven 1 Zone 2 Circulation Fan 1 and 2

Motor and fan vibrations remain high at well over 1.2 inches/second peak velocity. Vibration is at fan speed in the motor and fan. This may be due to build-up on the fan. Inspect fan wheel for build- up and damage ASAP. Inspect sheaves and belts as well. Ensure fan bearings have adequate grease. Rated as a **CLASS III** defect.

#1 Finishing Baghouse Dust Collector

Overall vibration was lower this survey. Fana data still shows some 1 x rpm vibration with a small 2 and 3 x rpm vibration. Fan bearing fits and or shaft may have some wear. Fan still may have imbalance as well. Rated as a **CLASS II** defect.

#3 Finishing Baghouse Dust Collector

Vertical data of the motor and fan also indicate some possible drivetrain issues such as sheave misalignment and or belt issues. For now, inspect, sheaves and belts as scheduling allows. Ensure sheaves do not have face run-out and are aligned to spec. Check base springs to ensure they are in good shape and set properly. Rated as a **CLASS II** defect.

Hi-Pressure Water Pump

Motor data still shows signs of bearing defects and/or lube issue. Ensure motor bearings are getting adequate amount of grease. This will continue to be monitored closely. Rated as a **CLASS I** defect.

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                Abbreviated Last Measurement Summary
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          Database:  USG.rbm
          Area:      PERLITE

MEASUREMENT POINT             OVERALL LEVEL       HFD / VHFD
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B2EXD06FAN - #6 COMBUSTION BLOWER          (17-Jul-24)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .099 In/Sec       .343 G-s
       MOV                     .269 In/Sec       .122 G-s
       MIH                     .090 In/Sec       .312 G-s
       MIV                     .300 In/Sec       .043 G-s
       MIA                     .529 In/Sec       .064 G-s
       BIH                     .343 In/Sec      1.329 G-s
       BIV                     .243 In/Sec       .128 G-s
       BIA                     .519 In/Sec       .179 G-s
       BOH                     .257 In/Sec      1.047 G-s
       BOV                     .327 In/Sec       .154 G-s

B2EXD0306  - #6 EXPANDER DUST COLLECTOR    (17-Jul-24)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .163 In/Sec       .306 G-s
       MOV                     .100 In/Sec       .105 G-s
       MIH                     .140 In/Sec       .362 G-s
       MIV                     .109 In/Sec       .077 G-s
       MIA                     .159 In/Sec       .117 G-s
       FIH                     .908 In/Sec      1.187 G-s
       FIV                     .457 In/Sec       .589 G-s
       FIA                    1.104 In/Sec       .222 G-s
       FOH                     .453 In/Sec      1.404 G-s
       FOV                     .265 In/Sec       .688 G-s

B2PUP02GEA - HYDRAPULPER                   (18-Jul-24)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .483 In/Sec       .406 G-s
       MOV                     .369 In/Sec       .672 G-s
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MIH	.546 In/Sec	.338 G-s
MIV	.186 In/Sec	.185 G-s
MIA	.185 In/Sec	.108 G-s
GIH	.514 In/Sec	2.228 G-s
GIV	.321 In/Sec	.932 G-s
GIA	.093 In/Sec	.595 G-s
GOH	.393 In/Sec	1.467 G-s
GOV	.253 In/Sec	.499 G-s
GOA	.099 In/Sec	.309 G-s

Area: MIX UP/RECLAIM

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
1WWLOOPPMP - #1 WHITE WATER LOOP PUMP (17-Jul-24)		
	OVERALL LEVEL	1K-20KHz
MOH	.328 In/Sec	.785 G-s
MOV	.421 In/Sec	.244 G-s
MIH	.421 In/Sec	1.310 G-s
MIV	.547 In/Sec	.175 G-s
MIA	.219 In/Sec	.251 G-s
PIH	.154 In/Sec	.202 G-s
PIV	.161 In/Sec	.035 G-s
PIA	.168 In/Sec	.092 G-s
POH	.177 In/Sec	.137 G-s
POV	.145 In/Sec	.032 G-s
B2WEL1PMP2 - #2 EAST WELL WATER PUMP (17-Jul-24)		
	OVERALL LEVEL	1K-20KHz
MOH	.198 In/Sec	1.051 G-s
MOV	.360 In/Sec	.536 G-s
MIH	.226 In/Sec	.860 G-s
MIV	.512 In/Sec	.219 G-s
MIA	.412 In/Sec	.352 G-s
PIH	.134 In/Sec	.849 G-s
PIV	.136 In/Sec	.216 G-s
PIA	.169 In/Sec	.283 G-s
POH	.288 In/Sec	.845 G-s
POV	.340 In/Sec	.242 G-s

Area: BOARD LINE 3

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
1 - #1 TOP PRESS ROLL DRIVE (18-Jul-24)		
	OVERALL LEVEL	1K-20KHz
MOH	.061 In/Sec	.499 G-s
MOV	.125 In/Sec	.213 G-s
MIH	.057 In/Sec	.823 G-s
MIV	.074 In/Sec	.118 G-s
MIA	.105 In/Sec	.137 G-s
GIH	.042 In/Sec	.070 G-s
GIV	.030 In/Sec	.025 G-s
GIA	.027 In/Sec	.020 G-s
GOH	.021 In/Sec	.042 G-s
GOV	.022 In/Sec	.020 G-s
GOA	.022 In/Sec	.015 G-s
1b - #1 BOTTOM PRESS ROLL DRIVE (18-Jul-24)		

	OVERALL LEVEL	1K-20KHz
MOH	.086 In/Sec	.358 G-s
MOV	.117 In/Sec	.078 G-s
MIH	.087 In/Sec	.538 G-s
MIV	.147 In/Sec	.175 G-s
MIA	.155 In/Sec	.106 G-s
GIH	.038 In/Sec	.066 G-s
GIV	.059 In/Sec	.020 G-s
GIA	.018 In/Sec	.041 G-s
GOH	.031 In/Sec	.043 G-s
GOV	.035 In/Sec	.015 G-s
GOA	.038 In/Sec	.027 G-s

B3-KBS-02 - WET END CIRCULATION FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.096 In/Sec	.278 G-s
MOV	.032 In/Sec	.037 G-s
MIH	.060 In/Sec	.292 G-s
MIV	.023 In/Sec	.073 G-s
MIA	.026 In/Sec	.076 G-s
FIH	.110 In/Sec	.032 G-s
FIV	.032 In/Sec	.032 G-s
FIA	.140 In/Sec	.020 G-s
FOH	.064 In/Sec	.015 G-s
FOV	.032 In/Sec	.0069 G-s
FOA	.052 In/Sec	.0056 G-s

B3KBS01BLW - WET END COMBUSTION BLOWER (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.058 In/Sec	.589 G-s
MOV	.071 In/Sec	.121 G-s
MIH	.085 In/Sec	.688 G-s
MIV	.238 In/Sec	.099 G-s
MIA	.122 In/Sec	.155 G-s
BIH	.098 In/Sec	1.102 G-s
BIV	.090 In/Sec	.893 G-s
BIA	.099 In/Sec	.696 G-s
BOH	.089 In/Sec	2.252 G-s
BOV	.144 In/Sec	.856 G-s

B3-KBS-05 - DRY END CIRCULATION FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.059 In/Sec	.414 G-s
MOV	.029 In/Sec	.135 G-s
MIH	.035 In/Sec	1.045 G-s
MIV	.023 In/Sec	.295 G-s
MIA	.022 In/Sec	.165 G-s
FIH	.031 In/Sec	.097 G-s
FIV	.021 In/Sec	.104 G-s
FIA	.028 In/Sec	.094 G-s
FOH	.028 In/Sec	.029 G-s
FOV	.020 In/Sec	.023 G-s
FOA	.031 In/Sec	.015 G-s

B3KBS04BLW - DRY END COMBUSTION BLOWER (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.045 In/Sec	.430 G-s
MOV	.117 In/Sec	.171 G-s
MIH	.057 In/Sec	.553 G-s
MIV	.089 In/Sec	.100 G-s
MIA	.064 In/Sec	.138 G-s
BIH	.130 In/Sec	.590 G-s
BIV	.041 In/Sec	.092 G-s
BIA	.174 In/Sec	.069 G-s
BOH	.096 In/Sec	.275 G-s
BOV	.111 In/Sec	.065 G-s

B3-KBS-07 - LINE 3 KILN EXHAUST FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.030 In/Sec	.727 G-s

MOV	.064 In/Sec	.214 G-s
MIH	.044 In/Sec	.797 G-s
MIV	.060 In/Sec	.227 G-s
MIA	.046 In/Sec	.166 G-s
FIH	.0068 In/Sec	.0040 G-s
FIV	.0093 In/Sec	.0028 G-s
FIA	.015 In/Sec	.0023 G-s
FOH	.0065 In/Sec	.0012 G-s
FOV	.011 In/Sec	.0030 G-s
FOA	.024 In/Sec	.0031 G-s

Area: LINE 3 FINISHING

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

HIPRSWTRP - HI-PRESSURE WATER PUMP (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.146 In/Sec	2.140 G-s
MOV	.262 In/Sec	.349 G-s
MIH	.120 In/Sec	.977 G-s
MIV	.296 In/Sec	.289 G-s
MIA	.118 In/Sec	.702 G-s
P1H	.438 In/Sec	.507 G-s
P1V	.320 In/Sec	.226 G-s
P1A	.207 In/Sec	.287 G-s
P2H	.242 In/Sec	1.100 G-s
P2V	.449 In/Sec	.261 G-s
P2A	.175 In/Sec	.557 G-s

FINSHSHRD - FINISHING SHEDDER (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.070 In/Sec	.642 G-s
MOV	.147 In/Sec	.238 G-s
MIH	.057 In/Sec	.515 G-s
MIV	.150 In/Sec	.123 G-s
MIA	.067 In/Sec	.086 G-s
GH	.067 In/Sec	.217 G-s
GV	.096 In/Sec	.053 G-s
GA	.067 In/Sec	.048 G-s
SH	.056 In/Sec	.247 G-s
SV	.076 In/Sec	.068 G-s
SA	.044 In/Sec	.066 G-s

F3-GRD-01 - LINE 3 FINISH GRINDER #1 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.497 In/Sec	.366 G-s
MOV	.650 In/Sec	.066 G-s
MIH	.140 In/Sec	.283 G-s
MIV	.104 In/Sec	.083 G-s
MIA	.099 In/Sec	.107 G-s
GIH	.106 In/Sec	.198 G-s
GIV	.120 In/Sec	.038 G-s
GIA	.064 In/Sec	.043 G-s

F3-GRD-02 - LINE 3 FINISH GRINDER #2 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.934 In/Sec	.511 G-s
MOV	.514 In/Sec	.265 G-s
MIH	.339 In/Sec	.388 G-s
MIV	.446 In/Sec	.074 G-s
MIA	.083 In/Sec	.060 G-s
GIH	.104 In/Sec	.305 G-s

GIV		.124 In/Sec	.053 G-s
GIA		.113 In/Sec	.072 G-s

F3-GRD-04 - LINE 3 FINISH GRINDER #4 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	1.378 In/Sec	.342 G-s
MOV	.697 In/Sec	.120 G-s
MIH	.659 In/Sec	.170 G-s
MIV	.263 In/Sec	.078 G-s
MIA	.120 In/Sec	.052 G-s
GIH	.222 In/Sec	.304 G-s
GIV	.138 In/Sec	.074 G-s
GIA	.167 In/Sec	.059 G-s

F3-GRD-05 - LINE 3 GRINDER DRIVE (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.045 In/Sec	.867 G-s
MOV	.072 In/Sec	.198 G-s
MIH	.076 In/Sec	1.236 G-s
MIV	.088 In/Sec	.318 G-s
MIA	.074 In/Sec	.188 G-s
G1I	.083 In/Sec	.946 G-s
GIV	.057 In/Sec	.396 G-s
G1A	.067 In/Sec	.558 G-s
G2O	.082 In/Sec	.786 G-s
GOV	.089 In/Sec	.259 G-s
G2A	.056 In/Sec	.234 G-s

B3-KFS-04 - LINE 3 KILN DRIVE (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.031 In/Sec	.262 G-s
MIH	.026 In/Sec	.327 G-s
MIA	.029 In/Sec	.279 G-s
G1I	.069 In/Sec	.160 G-s
G1A	.057 In/Sec	.206 G-s
G2O	.060 In/Sec	.273 G-s
G2A	.071 In/Sec	.427 G-s

B3KFS4LUBP - L3 KILN GEARBOX LUBE OIL PMP (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.135 In/Sec	.400 G-s
MOV	.125 In/Sec	.208 G-s
MIH	.111 In/Sec	.711 G-s
MIV	.090 In/Sec	.118 G-s
MIA	.051 In/Sec	.174 G-s
GH	.069 In/Sec	.698 G-s
GV	.086 In/Sec	.090 G-s
GA	.060 In/Sec	.125 G-s
PH	.125 In/Sec	.214 G-s
PV	.130 In/Sec	.125 G-s
PA	.101 In/Sec	.222 G-s

F3-PAD-06 - BLUE OVEN 1 ZONE1 CIRC FAN 1 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.200 In/Sec	.551 G-s
MOV	.147 In/Sec	.181 G-s
MIH	.375 In/Sec	.647 G-s
MIV	.270 In/Sec	.171 G-s
MIA	.277 In/Sec	.280 G-s
FIH	.360 In/Sec	.411 G-s
FIV	.363 In/Sec	.443 G-s
FIA	.296 In/Sec	.395 G-s
FOH	.145 In/Sec	2.005 G-s
FOV	.134 In/Sec	.627 G-s

OVN1ZNE1F2 - BLUE OVEN 1 ZONE1 CIRC FAN 2 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.204 In/Sec	.728 G-s
MOV	.274 In/Sec	.080 G-s
MIH	.279 In/Sec	.655 G-s

MIV	.442 In/Sec	.041 G-s
MIA	.288 In/Sec	.048 G-s
FIH	.321 In/Sec	.869 G-s
FIV	.488 In/Sec	.225 G-s
FIA	.324 In/Sec	.178 G-s
FOH	.178 In/Sec	1.035 G-s
FOV	.492 In/Sec	.302 G-s

OVN1ZNE2F1 - BLUE OVEN 1 ZONE2 CIRC FAN 1 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.520 In/Sec	1.482 G-s
MOV	.676 In/Sec	.317 G-s
MIH	1.407 In/Sec	.567 G-s
MIV	1.128 In/Sec	.186 G-s
MIA	2.190 In/Sec	.224 G-s
FIH	1.008 In/Sec	1.853 G-s
FIV	1.656 In/Sec	.257 G-s
FIA	.735 In/Sec	.268 G-s
FOH	.296 In/Sec	.637 G-s
FOV	.174 In/Sec	.150 G-s

OVN1ZNE2F2 - BLUE OVEN 1 ZONE2 CIRC FAN 2 (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.559 In/Sec	.752 G-s
MOV	.911 In/Sec	.158 G-s
MIH	.551 In/Sec	.855 G-s
MIV	1.843 In/Sec	.355 G-s
MIA	.488 In/Sec	.299 G-s
FIH	.955 In/Sec	.492 G-s
FIV	1.567 In/Sec	.086 G-s
FIA	.760 In/Sec	.109 G-s
FOH	.410 In/Sec	3.996 G-s
FOV	.209 In/Sec	.457 G-s

OVEN2Z1FAN - BLUE OVEN 2 ZONE1 CIRC FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.179 In/Sec	.513 G-s
MOV	.461 In/Sec	.126 G-s
MIH	.439 In/Sec	.816 G-s
MIV	.600 In/Sec	.131 G-s
MIA	.365 In/Sec	.289 G-s
FIH	.235 In/Sec	.589 G-s
FIV	.455 In/Sec	.152 G-s
FIA	.214 In/Sec	.136 G-s
FOH	.156 In/Sec	2.269 G-s
FOV	.141 In/Sec	.243 G-s

F3SPD06EX - BLUE OVEN 2 EXHAUST FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.311 In/Sec	.862 G-s
MOV	.335 In/Sec	.126 G-s
MIH	.742 In/Sec	.472 G-s
MIV	.447 In/Sec	.218 G-s
MIA	.567 In/Sec	.185 G-s
FIH	.314 In/Sec	.162 G-s
FIV	.600 In/Sec	1.097 G-s
FIA	.523 In/Sec	.262 G-s
FOH	.399 In/Sec	.207 G-s
FOV	.231 In/Sec	.209 G-s

D1DCR02EXH - #1 GRINDER BAGHOUSE DC FAN (18-Jul-24)

	OVERALL LEVEL	1K-20KHz
MOH	.142 In/Sec	.262 G-s
MOV	.591 In/Sec	.097 G-s
MIH	.148 In/Sec	.885 G-s
MIV	.249 In/Sec	.157 G-s
MIA	.241 In/Sec	.127 G-s
FIH	.637 In/Sec	.409 G-s
FIV	.408 In/Sec	2.529 G-s
FIA	.725 In/Sec	.379 G-s

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            FOH                        .573 In/Sec        .480 G-s
            FOV                        .379 In/Sec       3.058 G-s

      D1DCR03EXH - #2 FINISHING DUST COLLECTOR   (18-Jul-24)
                                    OVERALL LEVEL      1K-20KHz
            MOH                        .188 In/Sec       1.227 G-s
            MOV                        .169 In/Sec        .220 G-s
            MIH                        .124 In/Sec       3.732 G-s
            MIV                        .199 In/Sec        .375 G-s
            MIA                        .229 In/Sec        .624 G-s
            FIH                        .212 In/Sec       1.887 G-s
            FIV                        .267 In/Sec        .495 G-s
            FIA                        .357 In/Sec        .262 G-s
            FOH                        .167 In/Sec        .798 G-s
            FOV                        .169 In/Sec        .384 G-s

      D1DCR01EXH - #3 FINISHING DUST COLLECTOR   (18-Jul-24)
                                    OVERALL LEVEL      1K-20KHz
            MOH                        .308 In/Sec       1.018 G-s
            MOV                        .778 In/Sec        .796 G-s
            MIH                        .182 In/Sec       2.970 G-s
            MIV                        .643 In/Sec        .528 G-s
            MIA                        .190 In/Sec        .844 G-s
            FIH                        .571 In/Sec        .939 G-s
            FIV                        .377 In/Sec        .381 G-s
            FIA                        .514 In/Sec        .633 G-s
            FOH                        .446 In/Sec       1.013 G-s
            FOV                        .268 In/Sec        .281 G-s

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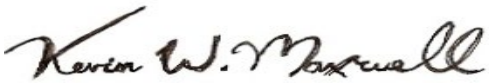
   Clarification Of Vibration Units:
      Acc       -->  G-s       RMS
      Vel       -->  In/Sec    PK
```

As always, it has been a pleasure to serve USG Greenville, MS. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



ISO Certified Vibration Analyst, Category III

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