HI-SPEED INDUSTRIAL SERVICE QualiTest® Diagnostics

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USG-Greenville
Greenville, MS

Terry,

The following is a summary of findings from the July 2025 monthly vibration survey at the USG Greenville, MS Plant.

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
A high sub-synchronous vibration also remains in the motor axial. Check belts and sheaves for wear and misalignment soon. Ensure fan shaft does not have run out. Rated as a **CLASS II** defect.

#6 Expander Dust Collector
Fan data shows non-synchronous peaks throughout spectra. This appears to be rolling element defects. For now, ensure bearings have adequate grease. Bearings will likely need attention in the next few months. Rated as a **CLASS II** defect.

#8 Expander Dust Collector
Motor data suggests defects are forming in the motor bearings. Also, fan data shows increase in 1 x rpm vibration. Inpsect fan wheel for buildup. **A field balance should be performed as scheduling allows.**. Inpsect motor and inspect fan wheel. Rated as a **CLASS III** defect.

Hydropulper
Overall, the unit looks good. Amplitudes are as low as we have seen them. Gearbox data does show some low level signs of internal wear. We are monitoring this closely. Rated as a **CLASS I** defect.

Mix-Up/Reclaim

#1 White Water Loop Pump
Motor data shows defects are present in motor bearings. Overall G's have increased significantly since May data. Motor needs attention soon. Rated as a **CLASS IV** defect.

#2 Well Water Pump
Motor and pump data shows low level bearing defects are present in data. Watching closely. Rated as a **CLASS I** defect.

Fiberglass

#1 Oven Circ. Fan
NEW SHAFT GUARD NEEDS TO BE MODIFIED TO GAIN ACCESS TO FAN BEARINGS. Motor data shows that the motor 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

NEW SHAFT GUARD NEEDS TO BE MODIFIED TO GAIN ACCESS TO FAN BEARINGS. Previous data showed 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.

#2 Oven Exhaust Fan

Outboard (ODE) fan bearing data shows some rpm harmonics in the mid-frequency of the spectrum. This may be some fit looseness starting to progress. We are monitoring this closely. Rated as a **CLASS I** defect.

Board Line 3

Vacuum Pump MOTORS 1, 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.

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.

Wet End Circulation Fan

Fan has some slight 1 x rpm vibration likely due to fan imbalance or shaft run out. A trim balance may be needed at some point; however, amplitudes are low at this time. Rated as a **CLASS I** defect.

Finishing

Grinder Drive

Motor and gear drive data both shows signs of defects/wear of the bearing and gear drive shows signs of gear wear as well .Unit will likely need attention in the near future. Watching this closely. Rated as a **CLASS II** defect.

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 III** defect.

Blue Oven 1 Zone 1 Circulation Fan 2

Fan end fan bearing (outboard) data is showing substantial signs of defects/wear. Trend shows issue to be worsening. 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 III** 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

Data shows high amplitude at the motor outboard vertical and inboard (DE) fan axial. Fan bearing data shows noise floor. Check fan bearings for defects and ensure lube is good. Fan wheel may have imbalance. Fan shaft may also have run out, sheave eccentricity or sheave run out. Check fan, fan bearings, fan shaft and sheave for these issues soon. Rated as a **CLASS II** defect.

#2 Finishing Baghouse Dust Collector

Motor DE vibration data shows some peaks in spectral data that are very likely associated with bearing cage frequency. DE motor bearing likely has bearing defects due to appearance of cage modulation. Inspect motor as scheduling allows. . Ensure belts are not too tight and motor bearings are greased properly. 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. Fan also has some 1 x rpm vibration and likely has some imbalance. Rated as a **CLASS II** defect.

Abbreviated Last Measurement Summary

Database: USG.rbm
Area: PERLITE

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
B2EXD0306 - #6 EXPANDER DUST COLLECTOR (23-Jul-25)		
	OVERALL LEVEL	1K-20KHz
MOH	.085 In/Sec	.361 G-s
MOV	.087 In/Sec	.173 G-s
MIH	.089 In/Sec	.691 G-s
MIV	.072 In/Sec	.262 G-s
MIA	.070 In/Sec	.276 G-s
FIH	.283 In/Sec	1.850 G-s
FIV	.667 In/Sec	.218 G-s
FIA	.445 In/Sec	.302 G-s
FOH	.216 In/Sec	1.368 G-s
FOV	.612 In/Sec	.394 G-s
B2EXD05-8 - #8 EXPANDER DUST COLLECTOR (23-Jul-25)		
	OVERALL LEVEL	1K-20KHz
MOH	.334 In/Sec	1.411 G-s
MOV	.723 In/Sec	.481 G-s
MIH	.186 In/Sec	3.268 G-s
MIV	.219 In/Sec	.851 G-s
MIA	.352 In/Sec	.786 G-s
FIH	.986 In/Sec	1.296 G-s
FIV	.618 In/Sec	.302 G-s
FIA	.628 In/Sec	.225 G-s
FOH	.743 In/Sec	1.752 G-s
FOV	.616 In/Sec	.352 G-s

B2PUP02GEA - HYDRAPULPER (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.107 In/Sec	.368 G-s
MOV	.073 In/Sec	.102 G-s
MIH	.098 In/Sec	.664 G-s
MIV	.101 In/Sec	.345 G-s
MIA	.074 In/Sec	.279 G-s
GIH	.162 In/Sec	1.381 G-s
GIV	.152 In/Sec	.460 G-s
GIA	.177 In/Sec	.278 G-s
GOH	.147 In/Sec	1.051 G-s
GOV	.091 In/Sec	.611 G-s
GOA	.187 In/Sec	.211 G-s

Area: MIX UP/RECLAIM

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

B2PUP03AGT - DUMP CHEST AGITATOR (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.154 In/Sec	.235 G-s
MOV	.111 In/Sec	.108 G-s
MIH	.074 In/Sec	.268 G-s
MIV	.166 In/Sec	.040 G-s
MIA	.089 In/Sec	.056 G-s
AIH	.053 In/Sec	.215 G-s
AIV	.044 In/Sec	.025 G-s
AIA	.023 In/Sec	.047 G-s
AOH	.061 In/Sec	.154 G-s
AOV	.039 In/Sec	.055 G-s

REFNCHSTAG - REFINED CHEST AGITATOR (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.114 In/Sec	.304 G-s
MOV	.171 In/Sec	.040 G-s
MIH	.107 In/Sec	.238 G-s
MIV	.144 In/Sec	.050 G-s
MIA	.105 In/Sec	.054 G-s
AIH	.046 In/Sec	.158 G-s
AIV	.059 In/Sec	.071 G-s
AIA	.029 In/Sec	.057 G-s
AOH	.084 In/Sec	.131 G-s
AOV	.071 In/Sec	.074 G-s

1WWLOOPPMP - #1 WHITE WATER LOOP PUMP (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.918 In/Sec	7.653 G-s
MOV	.818 In/Sec	1.177 G-s
MIH	.792 In/Sec	5.572 G-s
MIV	.560 In/Sec	.762 G-s
MIA	.688 In/Sec	1.249 G-s
PIH	.442 In/Sec	.675 G-s
PIV	.280 In/Sec	.172 G-s
PIA	.460 In/Sec	.134 G-s
POH	.302 In/Sec	.399 G-s
POV	.253 In/Sec	.229 G-s

WWMIXUPPMP - WHITE WATER MIX-UP PUMP (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.415 In/Sec	1.010 G-s
MOV	.375 In/Sec	.290 G-s
MIH	.178 In/Sec	.369 G-s
MIV	.055 In/Sec	.046 G-s
MIA	.122 In/Sec	.094 G-s
PIH	.142 In/Sec	.289 G-s
PIV	.048 In/Sec	.063 G-s
PIA	.120 In/Sec	.104 G-s
POH	.172 In/Sec	.664 G-s

POV	.112 In/Sec	.181 G-s

B2WEL1PMP2 - #2 EAST WELL WATER PUMP (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.540 In/Sec	1.598 G-s
MOV	.424 In/Sec	.530 G-s
MIH	.591 In/Sec	1.166 G-s
MIV	.539 In/Sec	.269 G-s
MIA	.344 In/Sec	.317 G-s
PIH	.219 In/Sec	1.494 G-s
PIV	.310 In/Sec	.274 G-s
PIA	.149 In/Sec	.319 G-s
POH	.277 In/Sec	1.219 G-s
POV	.297 In/Sec	.270 G-s

Area: FIBERGLASS

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

F1-DCR - FIBERGLASS DC FAN OLD LINE (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.259 In/Sec	1.307 G-s
MOV	.312 In/Sec	.306 G-s
MIH	.240 In/Sec	1.517 G-s
MIV	.444 In/Sec	.461 G-s
MIA	.424 In/Sec	.401 G-s
FIH	.244 In/Sec	.367 G-s
FIV	.137 In/Sec	.166 G-s
FIA	.143 In/Sec	.056 G-s
FOH	.225 In/Sec	.239 G-s
FOV	.128 In/Sec	.075 G-s

F1T1DCRFAN - FIBERGLASS DC FAN NEW LINE (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.071 In/Sec	.224 G-s
MOV	.071 In/Sec	.322 G-s
MIH	.078 In/Sec	.256 G-s
MIV	.106 In/Sec	.091 G-s
MIA	.093 In/Sec	.135 G-s
FIH	.066 In/Sec	.178 G-s
FIV	.065 In/Sec	.111 G-s
FIA	.176 In/Sec	.079 G-s
FOH	.076 In/Sec	.486 G-s
FOV	.083 In/Sec	.084 G-s

1FOCF - #1 OVEN CIRC FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.204 In/Sec	.250 G-s
MOV	.456 In/Sec	.048 G-s
MIH	.224 In/Sec	.428 G-s
MIV	.524 In/Sec	.124 G-s
MIA	.401 In/Sec	.073 G-s

1FOEF - #1 OVEN EXH FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.044 In/Sec	.156 G-s
MOV	.041 In/Sec	.034 G-s
MIH	.045 In/Sec	.237 G-s
MIV	.049 In/Sec	.049 G-s
MIA	.048 In/Sec	.050 G-s
FIH	.095 In/Sec	.012 G-s
FIV	.057 In/Sec	.010 G-s
FIA	.123 In/Sec	.0094 G-s
FOH	.119 In/Sec	.024 G-s
FOV	.110 In/Sec	.025 G-s

2FOCF - #2 OVEN CIRC FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.193 In/Sec	.239 G-s
MOV	.614 In/Sec	.057 G-s
MIH	.259 In/Sec	.439 G-s
MIV	.799 In/Sec	.129 G-s
MIA	.291 In/Sec	.087 G-s

2FOEF - #2 OVEN EXH FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.048 In/Sec	.117 G-s
MOV	.053 In/Sec	.041 G-s
MIH	.048 In/Sec	.177 G-s
MIV	.052 In/Sec	.027 G-s
MIA	.027 In/Sec	.036 G-s
FIH	.077 In/Sec	.011 G-s
FIV	.055 In/Sec	.040 G-s
FIA	.067 In/Sec	.011 G-s
FOH	.123 In/Sec	.027 G-s
FOV	.074 In/Sec	.166 G-s

Area: BOARD LINE 3

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

B3TFM05PMP - #3 MACHINE WHITE WATER PUMP (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.186 In/Sec	.687 G-s
MOV	.420 In/Sec	.110 G-s
MIH	.301 In/Sec	.705 G-s
MIV	.624 In/Sec	.097 G-s
MIA	.212 In/Sec	.198 G-s
PIH	.373 In/Sec	.697 G-s
PIV	.107 In/Sec	.108 G-s
PIA	.149 In/Sec	.167 G-s
POH	.300 In/Sec	.279 G-s
POV	.289 In/Sec	.137 G-s

B3TFM3PMPB - LINE 3 MACHINE CHEST PUMP 3B (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.140 In/Sec	1.262 G-s
MOV	.056 In/Sec	.332 G-s
MIH	.175 In/Sec	1.198 G-s
MIV	.191 In/Sec	.139 G-s
MIA	.349 In/Sec	.286 G-s
PIH	.067 In/Sec	.187 G-s
PIV	.164 In/Sec	.037 G-s
PIA	.085 In/Sec	.041 G-s
POH	.047 In/Sec	.125 G-s
POV	.053 In/Sec	.037 G-s

B3-VAC-01 - LINE 3 VACUUM PUMP #1 (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.069 In/Sec	.979 G-s
MOV	.082 In/Sec	.447 G-s
MIH	.059 In/Sec	1.040 G-s
MIV	.089 In/Sec	.215 G-s
MIA	.039 In/Sec	.295 G-s
PIH	.125 In/Sec	.062 G-s
PIV	.064 In/Sec	.030 G-s
PIA	.054 In/Sec	.027 G-s
POH	.334 In/Sec	.079 G-s
POV	.115 In/Sec	.017 G-s

B3-VAC-02 - LINE 3 VACUUM PUMP #2 (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.146 In/Sec	3.550 G-s
MOV	.100 In/Sec	.312 G-s

MIH	.086 In/Sec	1.180 G-s
MIV	.119 In/Sec	.256 G-s
MIA	.136 In/Sec	.441 G-s
PIH	.057 In/Sec	.110 G-s
PIV	.032 In/Sec	.020 G-s
PIA	.084 In/Sec	.033 G-s
POH	.081 In/Sec	.108 G-s
POV	.132 In/Sec	.027 G-s

B3-VAC-03 - LINE 3 VACUUM PUMP #3 (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.116 In/Sec	2.308 G-s
MOV	.280 In/Sec	.464 G-s
MIH	.146 In/Sec	3.757 G-s
MIV	.090 In/Sec	.401 G-s
MIA	.068 In/Sec	.315 G-s
PIH	.273 In/Sec	.190 G-s
PIV	.412 In/Sec	.061 G-s
PIA	.226 In/Sec	.049 G-s
POH	.367 In/Sec	.114 G-s
POV	.351 In/Sec	.056 G-s

LOWVACFAN - LOW VACUUM FAN (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.280 In/Sec	.550 G-s
MOV	.475 In/Sec	.563 G-s
MIH	.189 In/Sec	1.611 G-s
MIV	.249 In/Sec	.298 G-s
MIA	.169 In/Sec	.409 G-s
FIH	.150 In/Sec	.343 G-s
FIV	.251 In/Sec	.194 G-s
FIA	.098 In/Sec	.135 G-s
FOH	.062 In/Sec	.677 G-s
FOV	.100 In/Sec	.169 G-s

B3-VAC-06B - #1 FORMER WHITE WTR PIT PMP (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.099 In/Sec	.512 G-s
MOV	.186 In/Sec	.185 G-s
MIH	.154 In/Sec	.434 G-s
MIV	.132 In/Sec	.123 G-s
MIA	.097 In/Sec	.182 G-s
PIH	.034 In/Sec	.104 G-s
PIV	.054 In/Sec	.035 G-s
PIA	.083 In/Sec	.023 G-s
POH	.039 In/Sec	.067 G-s
POV	.101 In/Sec	.019 G-s

B3-VAC-10 - SEAL WATER RETURN PUMP (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.041 In/Sec	.559 G-s
MOV	.051 In/Sec	.110 G-s
MIH	.047 In/Sec	.746 G-s
MIV	.051 In/Sec	.332 G-s
MIA	.069 In/Sec	.198 G-s
PIH	.077 In/Sec	.226 G-s
PIV	.045 In/Sec	.075 G-s
PIA	.023 In/Sec	.085 G-s
POH	.017 In/Sec	.029 G-s
POV	.015 In/Sec	.013 G-s

B3FRM7SHW - HIGH PRESSURE SHOWER PUMP (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.136 In/Sec	.566 G-s
MOV	.246 In/Sec	.134 G-s
MIH	.085 In/Sec	.691 G-s
MIV	.200 In/Sec	.125 G-s
MIA	.144 In/Sec	.087 G-s
PIH	.197 In/Sec	.943 G-s
PIV	.224 In/Sec	.409 G-s

PIA	.301 In/Sec	.298 G-s
POH	.207 In/Sec	.831 G-s
POV	.264 In/Sec	.173 G-s

3 - #3 TOP PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.117 In/Sec	.340 G-s
MOV	.209 In/Sec	.325 G-s
MIH	.120 In/Sec	.615 G-s
MIV	.240 In/Sec	.248 G-s
MIA	.092 In/Sec	.177 G-s
GIH	.094 In/Sec	.066 G-s
GIV	.204 In/Sec	.025 G-s
GIA	.075 In/Sec	.014 G-s
GOH	.063 In/Sec	.045 G-s
GOV	.140 In/Sec	.018 G-s
GOA	.025 In/Sec	.011 G-s

3b - #3 BOTTOM PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.042 In/Sec	.552 G-s
MOV	.088 In/Sec	.127 G-s
MIH	.068 In/Sec	.588 G-s
MIV	.084 In/Sec	.150 G-s
MIA	.064 In/Sec	.169 G-s
GIH	.036 In/Sec	.021 G-s
GIV	.018 In/Sec	.0056 G-s
GIA	.012 In/Sec	.0051 G-s
GOH	.026 In/Sec	.021 G-s
GOV	.013 In/Sec	.0055 G-s
GOA	.012 In/Sec	.0050 G-s

B3FRM8ROLA - #2 TOP PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.074 In/Sec	.275 G-s
MOV	.052 In/Sec	.073 G-s
MIH	.059 In/Sec	.252 G-s
MIV	.068 In/Sec	.063 G-s
MIA	.061 In/Sec	.045 G-s
GIH	.033 In/Sec	.053 G-s
GIV	.032 In/Sec	.010 G-s
GIA	.018 In/Sec	.016 G-s
GOH	.019 In/Sec	.047 G-s
GOV	.024 In/Sec	.0064 G-s
GOA	.022 In/Sec	.010 G-s

B3FRM8ROLB - #2 BOTTOM PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.038 In/Sec	.146 G-s
MOV	.085 In/Sec	.060 G-s
MIH	.041 In/Sec	.375 G-s
MIV	.112 In/Sec	.078 G-s
MIA	.069 In/Sec	.059 G-s
GIH	.028 In/Sec	.022 G-s
GIV	.030 In/Sec	.0074 G-s
GIA	.012 In/Sec	.0050 G-s
GOH	.025 In/Sec	.015 G-s
GOV	.022 In/Sec	.0049 G-s
GOA	.013 In/Sec	.0051 G-s

1 - #1 TOP PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.068 In/Sec	.497 G-s
MOV	.050 In/Sec	.100 G-s
MIH	.084 In/Sec	.586 G-s
MIV	.056 In/Sec	.112 G-s
MIA	.057 In/Sec	.129 G-s
GIH	.061 In/Sec	.053 G-s
GIV	.029 In/Sec	.016 G-s
GIA	.026 In/Sec	.018 G-s

	GOH	.034 In/Sec	.039 G-s
	GOV	.018 In/Sec	.0092 G-s
	GOA	.023 In/Sec	.0069 G-s

1b - #1 BOTTOM PRESS ROLL DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.278 In/Sec	.367 G-s
MOV	.073 In/Sec	.079 G-s
MIH	.072 In/Sec	.197 G-s
MIV	.104 In/Sec	.051 G-s
MIA	.402 In/Sec	.035 G-s
GIH	.018 In/Sec	.056 G-s
GIV	.022 In/Sec	.021 G-s
GIA	.014 In/Sec	.013 G-s
GOH	.014 In/Sec	.035 G-s
GOV	.016 In/Sec	.018 G-s
GOA	.016 In/Sec	.0094 G-s

B3-FRM-11 - #3 BOARD LINE DRIVE (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.122 In/Sec	.648 G-s
MOV	.092 In/Sec	.219 G-s
MIH	.087 In/Sec	.465 G-s
MIV	.130 In/Sec	.193 G-s
MIA	.077 In/Sec	.202 G-s
G1I	.016 In/Sec	.159 G-s
GIV	.039 In/Sec	.036 G-s
G1A	.029 In/Sec	.041 G-s
G1O	.015 In/Sec	.083 G-s
G2O	.011 In/Sec	.066 G-s
GOV	.043 In/Sec	.064 G-s
G2I	.016 In/Sec	.085 G-s
G2A	.050 In/Sec	.027 G-s

B3-KBS-02 - WET END CIRCULATION FAN (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.085 In/Sec	.538 G-s
MOV	.023 In/Sec	.069 G-s
MIH	.083 In/Sec	.465 G-s
MIV	.027 In/Sec	.100 G-s
MIA	.030 In/Sec	.076 G-s
FIH	.102 In/Sec	.042 G-s
FIV	.041 In/Sec	.034 G-s
FIA	.124 In/Sec	.019 G-s
FOH	.069 In/Sec	.011 G-s
FOV	.050 In/Sec	.0058 G-s
FOA	.048 In/Sec	.0040 G-s

B3KBS01BLW - WET END COMBUSTION BLOWER (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.051 In/Sec	.500 G-s
MOV	.053 In/Sec	.097 G-s
MIH	.065 In/Sec	.599 G-s
MIV	.262 In/Sec	.113 G-s
MIA	.076 In/Sec	.117 G-s
BIH	.101 In/Sec	.874 G-s
BIV	.090 In/Sec	.677 G-s
BIA	.090 In/Sec	.323 G-s
BOH	.090 In/Sec	1.809 G-s
BOV	.137 In/Sec	.579 G-s

B3-KBS-05 - DRY END CIRCULATION FAN (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.091 In/Sec	.532 G-s
MOV	.101 In/Sec	.054 G-s
MIH	.086 In/Sec	.691 G-s
MIV	.082 In/Sec	.071 G-s
MIA	.078 In/Sec	.168 G-s
FIH	.055 In/Sec	.079 G-s
FIV	.016 In/Sec	.029 G-s

FIA	.033 In/Sec	.018 G-s
FOH	.043 In/Sec	.036 G-s
FOV	.0092 In/Sec	.021 G-s
FOA	.027 In/Sec	.037 G-s

B3KBS04BLW - DRY END COMBUSTION BLOWER (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.037 In/Sec	.428 G-s
MOV	.074 In/Sec	.131 G-s
MIH	.050 In/Sec	.660 G-s
MIV	.080 In/Sec	.200 G-s
MIA	.056 In/Sec	.262 G-s
BIH	.135 In/Sec	.949 G-s
BIV	.054 In/Sec	.165 G-s
BIA	.205 In/Sec	.094 G-s
BOH	.110 In/Sec	.513 G-s
BOV	.164 In/Sec	.140 G-s

B3-KBS-07 - LINE 3 KILN EXHAUST FAN (22-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.049 In/Sec	.468 G-s
MOV	.076 In/Sec	.159 G-s
MIH	.051 In/Sec	.576 G-s
MIV	.079 In/Sec	.200 G-s
MIA	.027 In/Sec	.172 G-s
FIH	.0078 In/Sec	.0028 G-s
FIV	.013 In/Sec	.0033 G-s
FIA	.021 In/Sec	.0032 G-s
FOH	.0080 In/Sec	.0014 G-s
FOV	.0090 In/Sec	.0025 G-s
FOA	.019 In/Sec	.0025 G-s

Area: LINE 3 FINISHING

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

HIPRSWTRP - HI-PRESSURE WATER PUMP (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.108 In/Sec	1.142 G-s
MOV	.332 In/Sec	.300 G-s
MIH	.114 In/Sec	.928 G-s
MIV	.218 In/Sec	.285 G-s
MIA	.124 In/Sec	.350 G-s
P1H	.391 In/Sec	.868 G-s
P1V	.657 In/Sec	.511 G-s
P1A	.493 In/Sec	.229 G-s
P2H	.245 In/Sec	1.925 G-s
P2V	.558 In/Sec	.462 G-s
P2A	.267 In/Sec	.392 G-s

FINSHSHRD - FINISHING SHEDDER (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.112 In/Sec	.578 G-s
MOV	.184 In/Sec	.236 G-s
MIH	.091 In/Sec	.614 G-s
MIV	.157 In/Sec	.097 G-s
MIA	.076 In/Sec	.157 G-s
GH	.104 In/Sec	.397 G-s
GV	.134 In/Sec	.058 G-s
GA	.144 In/Sec	.084 G-s
SH	.073 In/Sec	.211 G-s
SV	.127 In/Sec	.054 G-s
SA	.079 In/Sec	.100 G-s

F3-GRD-01 - LINE 3 FINISH GRINDER #1 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	1.141 In/Sec	.436 G-s
MOV	.382 In/Sec	.116 G-s

MIH		.352 In/Sec	.367 G-s
MIV		.117 In/Sec	.109 G-s
MIA		.146 In/Sec	.128 G-s
GIH		.115 In/Sec	.378 G-s
GIV		.069 In/Sec	.081 G-s
GIA		.084 In/Sec	.096 G-s

F3-GRD-02 - LINE 3 FINISH GRINDER #2 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.275 In/Sec	.613 G-s
MOV	.134 In/Sec	.188 G-s
MIH	.333 In/Sec	.410 G-s
MIV	.307 In/Sec	.155 G-s
MIA	.198 In/Sec	.103 G-s
GIH	.090 In/Sec	.310 G-s
GIV	.145 In/Sec	.085 G-s
GIA	.070 In/Sec	.131 G-s

F3-GRD-04 - LINE 3 FINISH GRINDER #4 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.175 In/Sec	.013 G-s
MOV	.230 In/Sec	.0069 G-s
MIH	.128 In/Sec	.025 G-s
MIV	.131 In/Sec	.0063 G-s
MIA	.132 In/Sec	.0040 G-s
GIH	.045 In/Sec	.031 G-s
GIV	.067 In/Sec	.012 G-s
GIA	.085 In/Sec	.0090 G-s

F3-GRD-05 - LINE 3 GRINDER DRIVE (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.070 In/Sec	.680 G-s
MOV	.106 In/Sec	.211 G-s
MIH	.072 In/Sec	.772 G-s
MIV	.154 In/Sec	.191 G-s
MIA	.101 In/Sec	.129 G-s
G1I	.076 In/Sec	.927 G-s
GIV	.080 In/Sec	.254 G-s
G1A	.067 In/Sec	.435 G-s
G2O	.093 In/Sec	.934 G-s
GOV	.114 In/Sec	.243 G-s
G2A	.044 In/Sec	.366 G-s

B3KFS4LUBP - L3 KILN GEARBOX LUBE OIL PMP (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.102 In/Sec	.449 G-s
MOV	.086 In/Sec	.273 G-s
MIH	.070 In/Sec	.596 G-s
MIV	.064 In/Sec	.254 G-s
MIA	.089 In/Sec	.091 G-s
GH	.078 In/Sec	.529 G-s
GV	.080 In/Sec	.163 G-s
GA	.070 In/Sec	.166 G-s
PH	.151 In/Sec	.298 G-s
PV	.067 In/Sec	.174 G-s
PA	.265 In/Sec	.212 G-s

F3-PAD-06 - BLUE OVEN 1 ZONE1 CIRC FAN 1 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.301 In/Sec	.558 G-s
MOV	.298 In/Sec	.150 G-s
MIH	.603 In/Sec	.540 G-s
MIV	.386 In/Sec	.157 G-s
MIA	.593 In/Sec	.190 G-s
FIH	.468 In/Sec	.735 G-s
FIV	.424 In/Sec	.255 G-s
FIA	.318 In/Sec	.291 G-s
FOH	.173 In/Sec	1.920 G-s
FOV	.274 In/Sec	.615 G-s

OVN1ZNE1F2 - BLUE OVEN 1 ZONE1 CIRC FAN 2 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.189 In/Sec	.607 G-s
MOV	.284 In/Sec	.098 G-s
MIH	.288 In/Sec	.709 G-s
MIV	.481 In/Sec	.128 G-s
MIA	.303 In/Sec	.104 G-s
FIH	.180 In/Sec	1.006 G-s
FIV	.424 In/Sec	.127 G-s
FIA	.328 In/Sec	.141 G-s
FOH	.118 In/Sec	1.013 G-s
FOV	.220 In/Sec	.493 G-s

OVN1ZNE2F1 - BLUE OVEN 1 ZONE2 CIRC FAN 1 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.161 In/Sec	1.264 G-s
MOV	.380 In/Sec	.216 G-s
MIH	1.281 In/Sec	.484 G-s
MIV	.919 In/Sec	.201 G-s
MIA	2.272 In/Sec	.209 G-s
FIH	.832 In/Sec	.803 G-s
FIV	1.243 In/Sec	.167 G-s
FIA	.912 In/Sec	.133 G-s
FOH	.284 In/Sec	.525 G-s
FOV	.126 In/Sec	.084 G-s

OVN1ZNE2F2 - BLUE OVEN 1 ZONE2 CIRC FAN 2 (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.479 In/Sec	.752 G-s
MOV	.884 In/Sec	.152 G-s
MIH	.794 In/Sec	.643 G-s
MIV	1.735 In/Sec	.326 G-s
MIA	.308 In/Sec	.268 G-s
FIH	.951 In/Sec	.487 G-s
FIV	1.451 In/Sec	.096 G-s
FIA	.760 In/Sec	.100 G-s
FOH	.333 In/Sec	4.319 G-s
FOV	.269 In/Sec	.466 G-s

OVEN2Z1FAN - BLUE OVEN 2 ZONE1 CIRC FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.214 In/Sec	.349 G-s
MOV	.549 In/Sec	.151 G-s
MIH	.571 In/Sec	.509 G-s
MIV	.852 In/Sec	.053 G-s
MIA	.744 In/Sec	.078 G-s
FIH	.255 In/Sec	.573 G-s
FIV	.426 In/Sec	.190 G-s
FIA	.413 In/Sec	.195 G-s
FOH	.237 In/Sec	2.079 G-s
FOV	.304 In/Sec	.473 G-s

OVEN2Z2FAN - BLUE OVEN 2 ZONE2 CIRC FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.334 In/Sec	.802 G-s
MOV	.224 In/Sec	.244 G-s
MIH	.640 In/Sec	.720 G-s
MIV	.487 In/Sec	.162 G-s
MIA	.408 In/Sec	.244 G-s
FIH	.838 In/Sec	.663 G-s
FIV	.424 In/Sec	.187 G-s
FIA	.542 In/Sec	.206 G-s
FOH	.170 In/Sec	.426 G-s
FOV	.120 In/Sec	.115 G-s

D1DCR02EXH - #1 GRINDER BAGHOUSE DC FAN (23-Jul-25)

	OVERALL LEVEL	1K-20KHz
MOH	.275 In/Sec	.199 G-s
MOV	.536 In/Sec	.080 G-s
MIH	.161 In/Sec	.475 G-s

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            MIV                      .440 In/Sec       .107 G-s
            MIA                      .191 In/Sec       .061 G-s
            FIH                      .585 In/Sec       .525 G-s
            FIV                      .457 In/Sec      2.219 G-s
            FIA                      .700 In/Sec       .383 G-s
            FOH                      .514 In/Sec       .584 G-s
            FOV                      .295 In/Sec      3.270 G-s

      D1DCR03EXH - #2 FINISHING DUST COLLECTOR   (23-Jul-25)
                                  OVERALL LEVEL     1K-20KHz
            MOH                      .189 In/Sec       .575 G-s
            MOV                      .198 In/Sec       .187 G-s
            MIH                      .144 In/Sec      2.395 G-s
            MIV                      .221 In/Sec       .518 G-s
            MIA                      .193 In/Sec       .291 G-s
            FIH                      .395 In/Sec      1.524 G-s
            FIV                      .365 In/Sec       .512 G-s
            FIA                      .485 In/Sec       .304 G-s
            FOH                      .179 In/Sec      2.432 G-s
            FOV                      .230 In/Sec       .426 G-s

      D1DCR01EXH - #3 FINISHING DUST COLLECTOR   (23-Jul-25)
                                  OVERALL LEVEL     1K-20KHz
            MOH                      .277 In/Sec      1.558 G-s
            MOV                      .619 In/Sec       .247 G-s
            MIH                      .231 In/Sec      1.240 G-s
            MIV                      .603 In/Sec       .276 G-s
            MIA                      .207 In/Sec       .240 G-s
            FIH                      .495 In/Sec      2.296 G-s
            FIV                      .397 In/Sec       .192 G-s
            FIA                      .366 In/Sec       .361 G-s
            FOH                      .344 In/Sec      1.188 G-s
            FOV                      .220 In/Sec       .310 G-s

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   Clarification Of Vibration Units:
      Acc       -->  G-s       RMS
      Vel       -->  In/Sec    PK
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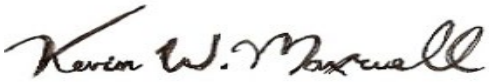
As always, it has been a pleasure to serve USG Greenville, MS. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



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