HI-SPEED INDUSTRIAL SERVICE QualiTest® Diagnostics

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June 20, 2025

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Greenville, MS

Terry,

The following is a summary of findings from the June 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.

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.

Hi-Pressure Shower Pump
Motor/pump base appears to be loose to the concrete. Motor and pump both have high vertical and axial vibration. Harmonics appear to be 1/3 of rpm indicating significant looseness. Inspect base for looseness ASAP. Also inspect couplings for issues. 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.

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

Fan was not in service this month; however, the following likely still applies: Motor DE vibration data shows some peaks in spectral data that are very likely associated with bearing cage frequency. For now, ensure belts are not too tight and motor bearing is greased properly. DE motor bearing likely has early stage bearing defects due to appearance of cage modulation. Rated as a **CLASS I** 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.

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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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B2EXD02-5  - #5 EXPANDER DUST COLLECTOR    (19-Jun-25)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .163 In/Sec       .573 G-s
       MOV                     .191 In/Sec       .099 G-s
       MIH                     .091 In/Sec       .340 G-s
       MIV                     .147 In/Sec       .054 G-s
       MIA                     .159 In/Sec       .079 G-s
       FIH                     .175 In/Sec      2.497 G-s
       FIV                     .303 In/Sec       .656 G-s
       FIA                     .345 In/Sec       .430 G-s
       FOH                     .204 In/Sec      1.794 G-s
       FOV                     .338 In/Sec       .506 G-s

B2EXD0306  - #6 EXPANDER DUST COLLECTOR    (19-Jun-25)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .059 In/Sec       .333 G-s
       MOV                     .072 In/Sec       .120 G-s
       MIH                     .064 In/Sec       .685 G-s
       MIV                     .059 In/Sec       .130 G-s
       MIA                     .058 In/Sec       .276 G-s
       FIH                     .238 In/Sec      2.029 G-s
       FIV                     .263 In/Sec       .522 G-s
       FIA                     .489 In/Sec       .336 G-s
       FOH                     .200 In/Sec       .757 G-s
       FOV                     .200 In/Sec       .207 G-s

B2EXD04-7  - #7 EXPANDER DUST COLLECTOR    (19-Jun-25)
                              OVERALL LEVEL     1K-20KHz
       MOH                     .144 In/Sec       .943 G-s
       MOV                     .099 In/Sec       .158 G-s
       MIH                     .088 In/Sec      1.215 G-s
       MIV                     .127 In/Sec       .358 G-s
       MIA                     .082 In/Sec       .251 G-s
       FIH                     .167 In/Sec      1.391 G-s
       FIV                     .200 In/Sec       .301 G-s
       FIA                     .273 In/Sec       .277 G-s
       FOH                     .156 In/Sec      2.580 G-s
       FOV                     .217 In/Sec       .527 G-s

B2EXD05-8  - #8 EXPANDER DUST COLLECTOR    (19-Jun-25)
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		OVERALL LEVEL	1K-20KHz
	MOH	.252 In/Sec	2.500 G-s
	MOV	.662 In/Sec	.389 G-s
	MIH	.213 In/Sec	3.688 G-s
	MIV	.250 In/Sec	.745 G-s
	MIA	.303 In/Sec	.573 G-s
	FIH	.934 In/Sec	1.117 G-s
	FIV	.580 In/Sec	.319 G-s
	FIA	.471 In/Sec	.184 G-s
	FOH	.677 In/Sec	1.149 G-s
	FOV	.572 In/Sec	.221 G-s
B2PUP02GEA - HYDRAPULPER		(19-Jun-25)	
		OVERALL LEVEL	1K-20KHz
	MOH	.131 In/Sec	.375 G-s
	MOV	.107 In/Sec	.091 G-s
	MIH	.148 In/Sec	.603 G-s
	MIV	.127 In/Sec	.132 G-s
	MIA	.069 In/Sec	.247 G-s
	GIH	.228 In/Sec	1.904 G-s
	GIV	.278 In/Sec	.701 G-s
	GIA	.144 In/Sec	.362 G-s
	GOH	.162 In/Sec	1.115 G-s
	GOV	.130 In/Sec	.768 G-s
	GOA	.168 In/Sec	.450 G-s

Area: FIBERGLASS

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
F1-DCR - FIBERGLASS DC FAN OLD LINE	(19-Jun-25)	
	OVERALL LEVEL	1K-20KHz
MOH	.267 In/Sec	1.166 G-s
MOV	.339 In/Sec	.252 G-s
MIH	.242 In/Sec	1.628 G-s
MIV	.457 In/Sec	.354 G-s
MIA	.423 In/Sec	.341 G-s
FIH	.247 In/Sec	.527 G-s
FIV	.125 In/Sec	.113 G-s
FIA	.174 In/Sec	.119 G-s
FOH	.234 In/Sec	.784 G-s
FOV	.125 In/Sec	.168 G-s
1FOCF - #1 OVEN CIRC FAN	(19-Jun-25)	
	OVERALL LEVEL	1K-20KHz
MOH	.191 In/Sec	.260 G-s
MOV	.682 In/Sec	.044 G-s
MIH	.323 In/Sec	.317 G-s
MIV	.815 In/Sec	.117 G-s
MIA	.557 In/Sec	.070 G-s
1FOEF - #1 OVEN EXH FAN	(19-Jun-25)	
	OVERALL LEVEL	1K-20KHz
MOH	.047 In/Sec	.133 G-s
MOV	.044 In/Sec	.042 G-s
MIH	.039 In/Sec	.239 G-s
MIV	.059 In/Sec	.049 G-s
MIA	.046 In/Sec	.063 G-s
FIH	.083 In/Sec	.020 G-s
FIV	.063 In/Sec	.013 G-s
FIA	.099 In/Sec	.013 G-s
FOH	.120 In/Sec	.026 G-s
FOV	.106 In/Sec	.082 G-s
2FOCF - #2 OVEN CIRC FAN	(19-Jun-25)	
	OVERALL LEVEL	1K-20KHz
MOH	.180 In/Sec	.177 G-s
MOV	.596 In/Sec	.045 G-s

	MIH	.260 In/Sec	.480 G-s
	MIV	.817 In/Sec	.162 G-s
	MIA	.200 In/Sec	.092 G-s

2FOEF - #2 OVEN EXH FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.051 In/Sec	.171 G-s
MOV	.045 In/Sec	.042 G-s
MIH	.049 In/Sec	.130 G-s
MIV	.049 In/Sec	.031 G-s
MIA	.027 In/Sec	.030 G-s
FIH	.078 In/Sec	.017 G-s
FIV	.049 In/Sec	.054 G-s
FIA	.069 In/Sec	.013 G-s
FOH	.099 In/Sec	.034 G-s
FOV	.069 In/Sec	.163 G-s

Area: BOARD LINE 3

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

B3TFM3PMPA - MACHINE CHEST PUMP 3A (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.066 In/Sec	.829 G-s
MOV	.040 In/Sec	.130 G-s
MIH	.069 In/Sec	1.059 G-s
MIV	.086 In/Sec	.390 G-s
MIA	.065 In/Sec	.198 G-s
PIH	.025 In/Sec	.146 G-s
PIV	.018 In/Sec	.041 G-s
PIA	.020 In/Sec	.021 G-s
POH	.022 In/Sec	.234 G-s
POV	.017 In/Sec	.066 G-s

B3-VAC-01 - LINE 3 VACUUM PUMP #1 (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.086 In/Sec	1.457 G-s
MOV	.100 In/Sec	.561 G-s
MIH	.075 In/Sec	1.374 G-s
MIV	.099 In/Sec	.200 G-s
MIA	.052 In/Sec	.303 G-s
PIH	.141 In/Sec	.163 G-s
PIV	.088 In/Sec	.052 G-s
PIA	.075 In/Sec	.037 G-s
POH	.335 In/Sec	.063 G-s
POV	.089 In/Sec	.024 G-s

B3-VAC-02 - LINE 3 VACUUM PUMP #2 (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.092 In/Sec	2.278 G-s
MOV	.117 In/Sec	.461 G-s
MIH	.131 In/Sec	1.533 G-s
MIV	.133 In/Sec	.174 G-s
MIA	.253 In/Sec	.637 G-s
PIH	.057 In/Sec	.092 G-s
PIV	.073 In/Sec	.031 G-s
PIA	.106 In/Sec	.025 G-s
POH	.376 In/Sec	.093 G-s
POV	.174 In/Sec	.022 G-s

B3-VAC-03 - LINE 3 VACUUM PUMP #3 (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.103 In/Sec	2.021 G-s
MOV	.149 In/Sec	.569 G-s
MIH	.094 In/Sec	2.440 G-s
MIV	.082 In/Sec	.421 G-s
MIA	.057 In/Sec	.435 G-s

	PIH	.213 In/Sec	.176 G-s
	PIV	.178 In/Sec	.078 G-s
	PIA	.228 In/Sec	.056 G-s
	POH	.482 In/Sec	.072 G-s
	POV	.293 In/Sec	.044 G-s

LOWVACFAN - LOW VACUUM FAN (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.239 In/Sec	.357 G-s
MOV	.531 In/Sec	.158 G-s
MIH	.197 In/Sec	1.415 G-s
MIV	.209 In/Sec	.205 G-s
MIA	.151 In/Sec	.344 G-s
FIH	.194 In/Sec	.584 G-s
FIV	.262 In/Sec	.189 G-s
FIA	.140 In/Sec	.114 G-s
FOH	.075 In/Sec	.763 G-s
FOV	.110 In/Sec	.122 G-s

B3-VAC-06B - #1 FORMER WHITE WTR PIT PMP (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.124 In/Sec	.476 G-s
MOV	.168 In/Sec	.145 G-s
MIH	.195 In/Sec	.424 G-s
MIV	.185 In/Sec	.105 G-s
MIA	.090 In/Sec	.184 G-s
PIH	.057 In/Sec	.078 G-s
PIV	.092 In/Sec	.034 G-s
PIA	.149 In/Sec	.035 G-s
POH	.055 In/Sec	.126 G-s
POV	.192 In/Sec	.027 G-s

B3-VAC-10 - SEAL WATER RETURN PUMP (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.031 In/Sec	.379 G-s
MOV	.053 In/Sec	.117 G-s
MIH	.044 In/Sec	.747 G-s
MIV	.037 In/Sec	.238 G-s
MIA	.097 In/Sec	.092 G-s
PIH	.022 In/Sec	.054 G-s
PIV	.027 In/Sec	.017 G-s
PIA	.020 In/Sec	.013 G-s
POH	.013 In/Sec	.034 G-s
POV	.011 In/Sec	.010 G-s

B3FRM7SHW - HIGH PRESSURE SHOWER PUMP (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.267 In/Sec	.411 G-s
MOV	1.007 In/Sec	.147 G-s
MIH	.244 In/Sec	.705 G-s
MIV	.999 In/Sec	.145 G-s
MIA	.503 In/Sec	.111 G-s
PIH	.700 In/Sec	1.030 G-s
PIV	1.136 In/Sec	.603 G-s
PIA	.988 In/Sec	.281 G-s
POH	.803 In/Sec	.942 G-s
POV	1.200 In/Sec	.224 G-s

3 - #3 TOP PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	1.164 In/Sec	.370 G-s
MOV	.202 In/Sec	.103 G-s
MIH	.240 In/Sec	.965 G-s
MIV	.240 In/Sec	.242 G-s
MIA	.447 In/Sec	.112 G-s
GIH	.382 In/Sec	.055 G-s
GIV	.094 In/Sec	.015 G-s
GIA	.184 In/Sec	.014 G-s
GOH	.217 In/Sec	.027 G-s
GOV	.185 In/Sec	.014 G-s

	GOA	.157 In/Sec	.011 G-s

3b - #3 BOTTOM PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.097 In/Sec	.648 G-s
MOV	.077 In/Sec	.230 G-s
MIH	.130 In/Sec	.925 G-s
MIV	.081 In/Sec	.169 G-s
MIA	.116 In/Sec	.346 G-s
GIH	.065 In/Sec	.038 G-s
GIV	.057 In/Sec	.0081 G-s
GIA	.021 In/Sec	.0093 G-s
GOH	.043 In/Sec	.033 G-s
GOV	.020 In/Sec	.0074 G-s
GOA	.031 In/Sec	.0081 G-s

B3FRM8ROLA - #2 TOP PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.126 In/Sec	.373 G-s
MOV	.118 In/Sec	.062 G-s
MIH	.097 In/Sec	.367 G-s
MIV	.124 In/Sec	.077 G-s
MIA	.122 In/Sec	.059 G-s
GIH	.053 In/Sec	.068 G-s
GIV	.049 In/Sec	.019 G-s
GIA	.028 In/Sec	.011 G-s
GOH	.030 In/Sec	.040 G-s
GOV	.042 In/Sec	.011 G-s
GOA	.031 In/Sec	.0079 G-s

B3FRM8ROLB - #2 BOTTOM PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.170 In/Sec	.258 G-s
MOV	.122 In/Sec	.093 G-s
MIH	.126 In/Sec	.416 G-s
MIV	.125 In/Sec	.107 G-s
MIA	.078 In/Sec	.089 G-s
GIH	.106 In/Sec	.027 G-s
GIV	.045 In/Sec	.013 G-s
GIA	.030 In/Sec	.0070 G-s
GOH	.066 In/Sec	.015 G-s
GOV	.028 In/Sec	.0074 G-s
GOA	.027 In/Sec	.0066 G-s

1 - #1 TOP PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.127 In/Sec	.846 G-s
MOV	.085 In/Sec	.268 G-s
MIH	.066 In/Sec	.655 G-s
MIV	.088 In/Sec	.139 G-s
MIA	.088 In/Sec	.129 G-s
GIH	.055 In/Sec	.056 G-s
GIV	.057 In/Sec	.026 G-s
GIA	.026 In/Sec	.036 G-s
GOH	.033 In/Sec	.046 G-s
GOV	.042 In/Sec	.014 G-s
GOA	.030 In/Sec	.011 G-s

1b - #1 BOTTOM PRESS ROLL DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.178 In/Sec	.308 G-s
MOV	.121 In/Sec	.105 G-s
MIH	.080 In/Sec	.466 G-s
MIV	.093 In/Sec	.205 G-s
MIA	.222 In/Sec	.119 G-s
GIH	.033 In/Sec	.089 G-s
GIV	.047 In/Sec	.043 G-s
GIA	.026 In/Sec	.025 G-s
GOH	.027 In/Sec	.053 G-s
GOV	.032 In/Sec	.024 G-s

GOA	.035 In/Sec	.014 G-s

B3-FRM-11 - #3 BOARD LINE DRIVE (18-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.125 In/Sec	2.042 G-s
MOV	.093 In/Sec	.530 G-s
MIH	.118 In/Sec	.726 G-s
MIV	.235 In/Sec	.264 G-s
MIA	.117 In/Sec	.292 G-s
G1I	.047 In/Sec	.767 G-s
GIV	.184 In/Sec	.298 G-s
G1A	.054 In/Sec	.231 G-s
G1O	.057 In/Sec	.488 G-s
G2O	.043 In/Sec	.255 G-s
GOV	.088 In/Sec	.211 G-s
G2I	.045 In/Sec	.346 G-s
G2A	.068 In/Sec	.143 G-s

B3-KBS-02 - WET END CIRCULATION FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.108 In/Sec	.396 G-s
MOV	.031 In/Sec	.079 G-s
MIH	.090 In/Sec	.576 G-s
MIV	.030 In/Sec	.080 G-s
MIA	.032 In/Sec	.084 G-s
FIH	.094 In/Sec	.064 G-s
FIV	.034 In/Sec	.043 G-s
FIA	.114 In/Sec	.0098 G-s
FOH	.101 In/Sec	.020 G-s
FOV	.050 In/Sec	.0086 G-s
FOA	.060 In/Sec	.0081 G-s

B3KBS01BLW - WET END COMBUSTION BLOWER (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.056 In/Sec	.346 G-s
MOV	.060 In/Sec	.090 G-s
MIH	.073 In/Sec	.720 G-s
MIV	.259 In/Sec	.104 G-s
MIA	.068 In/Sec	.148 G-s
BIH	.111 In/Sec	.849 G-s
BIV	.086 In/Sec	.615 G-s
BIA	.104 In/Sec	.329 G-s
BOH	.096 In/Sec	2.000 G-s
BOV	.134 In/Sec	.822 G-s

B3-KBS-05 - DRY END CIRCULATION FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.093 In/Sec	.547 G-s
MOV	.106 In/Sec	.140 G-s
MIH	.100 In/Sec	1.348 G-s
MIV	.084 In/Sec	.233 G-s
MIA	.066 In/Sec	.124 G-s
FIH	.079 In/Sec	.098 G-s
FIV	.023 In/Sec	.091 G-s
FIA	.044 In/Sec	.163 G-s
FOH	.069 In/Sec	.058 G-s
FOV	.020 In/Sec	.022 G-s
FOA	.035 In/Sec	.015 G-s

B3KBS04BLW - DRY END COMBUSTION BLOWER (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.044 In/Sec	.331 G-s
MOV	.078 In/Sec	.136 G-s
MIH	.053 In/Sec	.797 G-s
MIV	.085 In/Sec	.182 G-s
MIA	.069 In/Sec	.291 G-s
BIH	.124 In/Sec	.598 G-s
BIV	.053 In/Sec	.097 G-s
BIA	.136 In/Sec	.120 G-s
BOH	.116 In/Sec	.631 G-s

BOV	.093 In/Sec	.099 G-s

B3-KBS-07 - LINE 3 KILN EXHAUST FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.047 In/Sec	.647 G-s
MOV	.099 In/Sec	.182 G-s
MIH	.047 In/Sec	.686 G-s
MIV	.072 In/Sec	.158 G-s
MIA	.044 In/Sec	.175 G-s
FIH	.013 In/Sec	.0066 G-s
FIV	.017 In/Sec	.010 G-s
FIA	.022 In/Sec	.0039 G-s
FOH	.013 In/Sec	.0021 G-s
FOV	.0074 In/Sec	.0028 G-s
FOA	.013 In/Sec	.0027 G-s

Area: LINE 3 FINISHING

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

HIPRSWTRP - HI-PRESSURE WATER PUMP (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.103 In/Sec	1.459 G-s
MOV	.249 In/Sec	.190 G-s
MIH	.075 In/Sec	.470 G-s
MIV	.243 In/Sec	.181 G-s
MIA	.126 In/Sec	.299 G-s
P1H	.369 In/Sec	.646 G-s
P1V	.446 In/Sec	.291 G-s
P1A	.218 In/Sec	.210 G-s
P2H	.116 In/Sec	1.431 G-s
P2V	.242 In/Sec	.512 G-s
P2A	.187 In/Sec	.356 G-s

FINSHSHRD - FINISHING SHEDDER (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.100 In/Sec	.515 G-s
MOV	.162 In/Sec	.211 G-s
MIH	.093 In/Sec	.675 G-s
MIV	.138 In/Sec	.111 G-s
MIA	.082 In/Sec	.076 G-s
GH	.065 In/Sec	.113 G-s
GV	.104 In/Sec	.034 G-s
GA	.065 In/Sec	.050 G-s
SH	.068 In/Sec	.103 G-s
SV	.100 In/Sec	.066 G-s
SA	.060 In/Sec	.085 G-s

F3-GRD-01 - LINE 3 FINISH GRINDER #1 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.834 In/Sec	.397 G-s
MOV	.446 In/Sec	.107 G-s
MIH	.341 In/Sec	.240 G-s
MIV	.241 In/Sec	.063 G-s
MIA	.134 In/Sec	.091 G-s
GIH	.113 In/Sec	.257 G-s
GIV	.061 In/Sec	.056 G-s
GIA	.099 In/Sec	.064 G-s

F3-GRD-02 - LINE 3 FINISH GRINDER #2 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.357 In/Sec	.499 G-s
MOV	.382 In/Sec	.074 G-s
MIH	.246 In/Sec	.341 G-s
MIV	.214 In/Sec	.146 G-s
MIA	.048 In/Sec	.088 G-s
GIH	.172 In/Sec	.387 G-s
GIV	.132 In/Sec	.181 G-s

	GIA	.075 In/Sec	.187 G-s

F3-GRD-04 - LINE 3 FINISH GRINDER #4 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.253 In/Sec	.312 G-s
MOV	.143 In/Sec	.096 G-s
MIH	.189 In/Sec	.254 G-s
MIV	.089 In/Sec	.092 G-s
MIA	.051 In/Sec	.055 G-s
GIH	.094 In/Sec	.227 G-s
GIV	.051 In/Sec	.056 G-s
GIA	.035 In/Sec	.051 G-s

F3-GRD-05 - LINE 3 GRINDER DRIVE (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.079 In/Sec	.942 G-s
MOV	.138 In/Sec	.511 G-s
MIH	.063 In/Sec	.994 G-s
MIV	.133 In/Sec	.220 G-s
MIA	.094 In/Sec	.208 G-s
G1I	.061 In/Sec	.671 G-s
GIV	.073 In/Sec	.245 G-s
G1A	.070 In/Sec	.272 G-s
G2O	.067 In/Sec	.509 G-s
GOV	.095 In/Sec	.180 G-s
G2A	.063 In/Sec	.216 G-s

B3KFS4LUBP - L3 KILN GEARBOX LUBE OIL PMP (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.097 In/Sec	.486 G-s
MOV	.078 In/Sec	.213 G-s
MIH	.066 In/Sec	.584 G-s
MIV	.085 In/Sec	.128 G-s
MIA	.041 In/Sec	.180 G-s
GH	.083 In/Sec	.575 G-s
GV	.060 In/Sec	.259 G-s
GA	.075 In/Sec	.195 G-s
PH	.201 In/Sec	.174 G-s
PV	.153 In/Sec	.118 G-s
PA	.266 In/Sec	.202 G-s

F3-PAD-06 - BLUE OVEN 1 ZONE1 CIRC FAN 1 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.179 In/Sec	.797 G-s
MOV	.233 In/Sec	.152 G-s
MIH	.706 In/Sec	.583 G-s
MIV	.474 In/Sec	.323 G-s
MIA	.696 In/Sec	.158 G-s
FIH	.505 In/Sec	.839 G-s
FIV	.287 In/Sec	.234 G-s
FIA	.379 In/Sec	.192 G-s
FOH	.144 In/Sec	1.922 G-s
FOV	.439 In/Sec	.279 G-s

OVN1ZNE1F2 - BLUE OVEN 1 ZONE1 CIRC FAN 2 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.120 In/Sec	.810 G-s
MOV	.266 In/Sec	.112 G-s
MIH	.145 In/Sec	.893 G-s
MIV	.285 In/Sec	.106 G-s
MIA	.340 In/Sec	.081 G-s
FIH	.251 In/Sec	.605 G-s
FIV	.603 In/Sec	.211 G-s
FIA	.446 In/Sec	.123 G-s
FOH	.429 In/Sec	2.226 G-s
FOV	1.298 In/Sec	.791 G-s

OVN1ZNE2F1 - BLUE OVEN 1 ZONE2 CIRC FAN 1 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz

MOH	.212 In/Sec	1.897 G-s
MOV	.449 In/Sec	.373 G-s
MIH	1.267 In/Sec	.733 G-s
MIV	1.021 In/Sec	.250 G-s
MIA	2.700 In/Sec	.236 G-s
FIH	.945 In/Sec	1.727 G-s
FIV	1.227 In/Sec	.185 G-s
FIA	.585 In/Sec	.188 G-s
FOH	.240 In/Sec	1.225 G-s
FOV	.144 In/Sec	.258 G-s

OVN1ZNE2F2 - BLUE OVEN 1 ZONE2 CIRC FAN 2 (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.454 In/Sec	.701 G-s
MOV	.769 In/Sec	.347 G-s
MIH	.521 In/Sec	.955 G-s
MIV	1.410 In/Sec	.429 G-s
MIA	.382 In/Sec	.344 G-s
FIH	.697 In/Sec	.391 G-s
FIV	1.279 In/Sec	.148 G-s
FIA	.822 In/Sec	.193 G-s
FOH	.280 In/Sec	4.055 G-s
FOV	.327 In/Sec	.368 G-s

OVEN2Z1FAN - BLUE OVEN 2 ZONE1 CIRC FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.204 In/Sec	.372 G-s
MOV	.424 In/Sec	.066 G-s
MIH	.412 In/Sec	.607 G-s
MIV	.720 In/Sec	.070 G-s
MIA	.527 In/Sec	.069 G-s
FIH	.361 In/Sec	.564 G-s
FIV	.404 In/Sec	.254 G-s
FIA	.457 In/Sec	.137 G-s
FOH	.200 In/Sec	2.173 G-s
FOV	.202 In/Sec	.284 G-s

OVEN2Z2FAN - BLUE OVEN 2 ZONE2 CIRC FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.300 In/Sec	.681 G-s
MOV	.309 In/Sec	.181 G-s
MIH	.826 In/Sec	.654 G-s
MIV	.532 In/Sec	.196 G-s
MIA	.691 In/Sec	.235 G-s
FIH	.590 In/Sec	.933 G-s
FIV	.334 In/Sec	.374 G-s
FIA	.485 In/Sec	.146 G-s
FOH	.141 In/Sec	.454 G-s
FOV	.110 In/Sec	.148 G-s

D1DCR02EXH - #1 GRINDER BAGHOUSE DC FAN (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.298 In/Sec	.481 G-s
MOV	.811 In/Sec	.131 G-s
MIH	.174 In/Sec	.794 G-s
MIV	.346 In/Sec	.144 G-s
MIA	.174 In/Sec	.099 G-s
FIH	.486 In/Sec	.614 G-s
FIV	.277 In/Sec	2.307 G-s
FIA	.551 In/Sec	.444 G-s
FOH	.430 In/Sec	.558 G-s
FOV	.285 In/Sec	3.765 G-s

D1DCR01EXH - #3 FINISHING DUST COLLECTOR (19-Jun-25)

	OVERALL LEVEL	1K-20KHz
MOH	.344 In/Sec	1.582 G-s
MOV	.798 In/Sec	.744 G-s
MIH	.205 In/Sec	.950 G-s
MIV	.617 In/Sec	.210 G-s
MIA	.325 In/Sec	.172 G-s

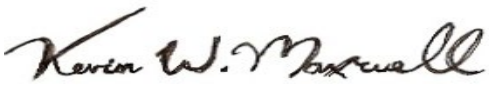
FIH	.427	In/Sec	1.462 G-s
FIV	.336	In/Sec	.730 G-s
FIA	.351	In/Sec	.179 G-s
FOH	.313	In/Sec	.907 G-s
FOV	.357	In/Sec	.552 G-s

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,



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