HI-SPEED INDUSTRIAL SERVICE QualiTest® Diagnostics

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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
Fan was not running, however, the following likely still applies: 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.

#5 Expander Dust Collector
Need to cut holes in top of bearing cover to allow for data collection on fan bearings. Vib seemed much lower after balancing fan again; however we do not have current data on fan due to no access.

#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 build up. A field balance may be needed. Inpsect motor and inspect fan wheel. Rated as a **CLASS III** defect.

Hydropulper
Motor and DE of gearbox have elevated 1 x rpm vibration and may indicate an issue with the fluid coupling assembly such as imbalance or internal wear of the assembly. Gearbox spectral data shows gear mesh harmonics with sidebands of output rpm indicating some slight wear in the gearbox. Monitoring these issues closely. Rated as a **CLASS II** defect.

Fiberglass

#1 Oven Circ. Fan
Unit was down; however the following may still apply: **Belts were off of the motor sheave. Motor was running but fan was not turning. Check belts and sheaves asap.** Personnel was notified while on site last week. Previous data showed that 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
Unit was down; however the following may still apply: **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

Unit was down; however the following may still apply: 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 has signs of bearing defects according to spectral data. Seems low level at this time. Check motor as time allows. Rated as a **CLASS II** 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 geardrive 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 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

Data shows high amplitude at the motor outboard vertical and inboard (DE) fan axial. Amplitude is over 1 ips -pk which is high compared to the average for this machine. 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. 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.

Abbreviated Last Measurement Summary

Database: USG.rbm
Area: PERLITE

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
B2EXD07FAN - #7 COMBUSTION BLOWER	**(29-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.313 In/Sec	.247 G-s
MOV	.446 In/Sec	.060 G-s
MIH	.126 In/Sec	.221 G-s
MIV	.427 In/Sec	.039 G-s
MIA	.347 In/Sec	.036 G-s
BIH	.207 In/Sec	2.932 G-s
BIV	.109 In/Sec	.227 G-s
BIA	.180 In/Sec	.251 G-s
BOH	.137 In/Sec	2.318 G-s
BOV	.083 In/Sec	.299 G-s
B2EXD08FAN - #8 COMBUSTION BLOWER	**(29-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.520 In/Sec	.240 G-s
MOV	.560 In/Sec	.033 G-s
MIH	.511 In/Sec	.339 G-s
MIV	.749 In/Sec	.085 G-s
MIA	.309 In/Sec	.082 G-s
BIH	.233 In/Sec	.747 G-s
BIV	.161 In/Sec	.130 G-s
BIA	.122 In/Sec	.120 G-s
BOH	.072 In/Sec	.752 G-s
BOV	.061 In/Sec	.318 G-s

B2EXD04-7 - #7 EXPANDER DUST COLLECTOR (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.157 In/Sec	.700 G-s
MOV	.113 In/Sec	.189 G-s
MIH	.093 In/Sec	.895 G-s
MIV	.128 In/Sec	.272 G-s
MIA	.066 In/Sec	.160 G-s
FIH	.180 In/Sec	2.897 G-s
FIV	.236 In/Sec	.582 G-s
FIA	.269 In/Sec	.499 G-s
FOH	.157 In/Sec	2.146 G-s
FOV	.199 In/Sec	1.032 G-s

B2EXD05-8 - #8 EXPANDER DUST COLLECTOR (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.326 In/Sec	1.890 G-s
MOV	.743 In/Sec	.482 G-s
MIH	.207 In/Sec	3.776 G-s
MIV	.188 In/Sec	.809 G-s
MIA	.317 In/Sec	.685 G-s
FIH	.848 In/Sec	1.098 G-s
FIV	.525 In/Sec	.321 G-s
FIA	.375 In/Sec	.215 G-s
FOH	.615 In/Sec	1.182 G-s
FOV	.567 In/Sec	.225 G-s

B2PUP02GEA - HYDRAPULPER (21-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.207 In/Sec	.492 G-s
MOV	.277 In/Sec	.919 G-s
MIH	.221 In/Sec	.502 G-s
MIV	.220 In/Sec	.301 G-s
MIA	.140 In/Sec	.171 G-s
GIH	.248 In/Sec	2.248 G-s
GIV	.307 In/Sec	.993 G-s
GIA	.197 In/Sec	.851 G-s
GOH	.146 In/Sec	2.077 G-s
GOV	.093 In/Sec	.605 G-s
GOA	.133 In/Sec	.174 G-s

Area: MIX UP/RECLAIM

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

1WWLOOPPMP - #1 WHITE WATER LOOP PUMP (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.424 In/Sec	.436 G-s
MOV	.659 In/Sec	.087 G-s
MIH	.594 In/Sec	.669 G-s
MIV	.739 In/Sec	.191 G-s
MIA	.628 In/Sec	.164 G-s
PIH	.742 In/Sec	.645 G-s
PIV	.342 In/Sec	.086 G-s
PIA	.393 In/Sec	.131 G-s
POH	.271 In/Sec	.161 G-s
POV	.268 In/Sec	.083 G-s

WWMIXUPPMP - WHITE WATER MIX-UP PUMP (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.520 In/Sec	.550 G-s
MOV	.507 In/Sec	.209 G-s
MIH	.436 In/Sec	1.809 G-s
MIV	.443 In/Sec	.377 G-s
MIA	.636 In/Sec	.305 G-s
PIH	.135 In/Sec	.357 G-s
PIV	.138 In/Sec	.067 G-s
PIA	.159 In/Sec	.060 G-s
POH	.223 In/Sec	.658 G-s
POV	.184 In/Sec	.073 G-s

B2WEL1PMP1 - #1 EAST WELL WATER PUMP (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.265 In/Sec	.548 G-s
MOV	.179 In/Sec	.284 G-s
MIH	.363 In/Sec	1.522 G-s
MIV	.199 In/Sec	.299 G-s
MIA	.255 In/Sec	.363 G-s
PIH	.056 In/Sec	.607 G-s
PIV	.049 In/Sec	.103 G-s
PIA	.115 In/Sec	.142 G-s
POH	.168 In/Sec	.574 G-s
POV	.092 In/Sec	.068 G-s

Area: FIBERGLASS

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD

F1T1DCRFAN - FIBERGLASS DC FAN NEW LINE (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.075 In/Sec	.348 G-s
MOV	.095 In/Sec	.138 G-s
MIH	.080 In/Sec	.375 G-s
MIV	.088 In/Sec	.075 G-s
MIA	.100 In/Sec	.055 G-s
FIH	.052 In/Sec	.330 G-s
FIV	.065 In/Sec	.207 G-s
FIA	.138 In/Sec	.127 G-s
FOH	.079 In/Sec	.272 G-s
FOV	.086 In/Sec	.259 G-s

1FOCF - #1 OVEN CIRC FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.113 In/Sec	.164 G-s
MOV	.906 In/Sec	.060 G-s
MIH	.307 In/Sec	.335 G-s
MIV	1.359 In/Sec	.107 G-s
MIA	.365 In/Sec	.057 G-s
FIH	.448 In/Sec	.685 G-s
FIV	.915 In/Sec	.096 G-s
FIA	.766 In/Sec	.137 G-s
FOH	.172 In/Sec	1.197 G-s
FOV	.484 In/Sec	.124 G-s

1FOEF - #1 OVEN EXH FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.087 In/Sec	.127 G-s
MOV	.047 In/Sec	.033 G-s
MIH	.082 In/Sec	.275 G-s
MIV	.056 In/Sec	.051 G-s
MIA	.067 In/Sec	.060 G-s
FIH	.156 In/Sec	.013 G-s
FIV	.075 In/Sec	.011 G-s
FIA	.110 In/Sec	.0097 G-s
FOH	.179 In/Sec	.014 G-s
FOV	.115 In/Sec	.059 G-s

2FOCF - #2 OVEN CIRC FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.238 In/Sec	.142 G-s
MOV	.620 In/Sec	.054 G-s
MIH	.191 In/Sec	.341 G-s
MIV	.728 In/Sec	.138 G-s
MIA	.353 In/Sec	.084 G-s

2FOEF - #2 OVEN EXH FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.046 In/Sec	.147 G-s

MOV	.042 In/Sec	.042 G-s
MIH	.043 In/Sec	.156 G-s
MIV	.045 In/Sec	.047 G-s
MIA	.033 In/Sec	.029 G-s
FIH	.076 In/Sec	.019 G-s
FIV	.050 In/Sec	.097 G-s
FIA	.081 In/Sec	.015 G-s
FOH	.115 In/Sec	.052 G-s
FOV	.067 In/Sec	.118 G-s

Area: BOARD LINE 3

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
B3TFM3PMPA - MACHINE CHEST PUMP 3A	**(28-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.087 In/Sec	.914 G-s
MOV	.051 In/Sec	.202 G-s
MIH	.093 In/Sec	.845 G-s
MIV	.087 In/Sec	.164 G-s
MIA	.078 In/Sec	.163 G-s
PIH	.032 In/Sec	.300 G-s
PIV	.023 In/Sec	.077 G-s
PIA	.024 In/Sec	.042 G-s
POH	.038 In/Sec	.032 G-s
POV	.027 In/Sec	.034 G-s
B3-VAC-01 - LINE 3 VACUUM PUMP #1	**(28-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.081 In/Sec	1.337 G-s
MOV	.109 In/Sec	.454 G-s
MIH	.092 In/Sec	2.088 G-s
MIV	.095 In/Sec	.308 G-s
MIA	.051 In/Sec	.361 G-s
PIH	.163 In/Sec	.043 G-s
PIV	.173 In/Sec	.050 G-s
PIA	.084 In/Sec	.045 G-s
POH	.687 In/Sec	.079 G-s
POV	.148 In/Sec	.019 G-s
B3-VAC-02 - LINE 3 VACUUM PUMP #2	**(28-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.124 In/Sec	2.835 G-s
MOV	.083 In/Sec	.723 G-s
MIH	.086 In/Sec	1.493 G-s
MIV	.109 In/Sec	.412 G-s
MIA	.093 In/Sec	.522 G-s
PIH	.037 In/Sec	.080 G-s
PIV	.031 In/Sec	.016 G-s
PIA	.092 In/Sec	.021 G-s
POH	.099 In/Sec	.071 G-s
POV	.154 In/Sec	.020 G-s
B3-VAC-03 - LINE 3 VACUUM PUMP #3	**(28-May-25)**	
	OVERALL LEVEL	1K-20KHz
MOH	.104 In/Sec	2.150 G-s
MOV	.177 In/Sec	.620 G-s
MIH	.099 In/Sec	1.987 G-s
MIV	.089 In/Sec	.316 G-s
MIA	.064 In/Sec	.485 G-s
PIH	.356 In/Sec	.124 G-s
PIV	.399 In/Sec	.109 G-s
PIA	.195 In/Sec	.099 G-s
POH	.495 In/Sec	.098 G-s
POV	.258 In/Sec	.080 G-s
LOWVACFAN - LOW VACUUM FAN	**(28-May-25)**	
	OVERALL LEVEL	1K-20KHz

MOH	.198 In/Sec	.598 G-s
MOV	.386 In/Sec	.237 G-s
MIH	.223 In/Sec	1.198 G-s
MIV	.228 In/Sec	.280 G-s
MIA	.192 In/Sec	.256 G-s
FIH	.179 In/Sec	.489 G-s
FIV	.296 In/Sec	.335 G-s
FIA	.074 In/Sec	.148 G-s
FOH	.075 In/Sec	.521 G-s
FOV	.131 In/Sec	.241 G-s

B3-VAC-06B - #1 FORMER WHITE WTR PIT PMP (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.064 In/Sec	.484 G-s
MOV	.191 In/Sec	.090 G-s
MIH	.342 In/Sec	.466 G-s
MIV	.306 In/Sec	.085 G-s
MIA	.173 In/Sec	.196 G-s
PIH	.022 In/Sec	.087 G-s
PIV	.043 In/Sec	.033 G-s
PIA	.095 In/Sec	.027 G-s
POH	.035 In/Sec	.059 G-s
POV	.083 In/Sec	.021 G-s

B3-VAC-10 - SEAL WATER RETURN PUMP (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.035 In/Sec	.669 G-s
MOV	.040 In/Sec	.085 G-s
MIH	.042 In/Sec	.814 G-s
MIV	.049 In/Sec	.263 G-s
MIA	.067 In/Sec	.158 G-s
PIH	.057 In/Sec	.142 G-s
PIV	.025 In/Sec	.069 G-s
PIA	.023 In/Sec	.052 G-s
POH	.023 In/Sec	.058 G-s
POV	.028 In/Sec	.027 G-s

3 - #3 TOP PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.270 In/Sec	.496 G-s
MOV	.217 In/Sec	.168 G-s
MIH	.122 In/Sec	.839 G-s
MIV	.149 In/Sec	.216 G-s
MIA	.150 In/Sec	.209 G-s
GIH	.149 In/Sec	.049 G-s
GIV	.106 In/Sec	.027 G-s
GIA	.119 In/Sec	.012 G-s
GOH	.083 In/Sec	.051 G-s
GOV	.092 In/Sec	.017 G-s
GOA	.048 In/Sec	.016 G-s

3b - #3 BOTTOM PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.061 In/Sec	.650 G-s
MOV	.065 In/Sec	.116 G-s
MIH	.110 In/Sec	.588 G-s
MIV	.094 In/Sec	.153 G-s
MIA	.123 In/Sec	.198 G-s
GIH	.031 In/Sec	.033 G-s
GIV	.025 In/Sec	.0074 G-s
GIA	.014 In/Sec	.0074 G-s
GOH	.023 In/Sec	.012 G-s
GOV	.016 In/Sec	.0045 G-s
GOA	.015 In/Sec	.0048 G-s

B3FRM8ROLA - #2 TOP PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.128 In/Sec	.370 G-s
MOV	.116 In/Sec	.049 G-s
MIH	.078 In/Sec	.292 G-s

MIV	.098 In/Sec	.071 G-s
MIA	.094 In/Sec	.069 G-s
GIH	.055 In/Sec	.054 G-s
GIV	.040 In/Sec	.020 G-s
GIA	.046 In/Sec	.015 G-s
GOH	.035 In/Sec	.057 G-s
GOV	.040 In/Sec	.015 G-s
GOA	.035 In/Sec	.0089 G-s

B3FRM8ROLB - #2 BOTTOM PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.101 In/Sec	.147 G-s
MOV	.250 In/Sec	.072 G-s
MIH	.097 In/Sec	.296 G-s
MIV	.235 In/Sec	.099 G-s
MIA	.254 In/Sec	.096 G-s
GIH	.084 In/Sec	.024 G-s
GIV	.082 In/Sec	.0084 G-s
GIA	.034 In/Sec	.0072 G-s
GOH	.064 In/Sec	.026 G-s
GOV	.044 In/Sec	.0066 G-s
GOA	.032 In/Sec	.0046 G-s

1 - #1 TOP PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.082 In/Sec	.573 G-s
MOV	.074 In/Sec	.088 G-s
MIH	.059 In/Sec	.583 G-s
MIV	.071 In/Sec	.150 G-s
MIA	.063 In/Sec	.127 G-s
GIH	.041 In/Sec	.075 G-s
GIV	.032 In/Sec	.028 G-s
GIA	.023 In/Sec	.022 G-s
GOH	.031 In/Sec	.038 G-s
GOV	.031 In/Sec	.013 G-s
GOA	.025 In/Sec	.011 G-s

1b - #1 BOTTOM PRESS ROLL DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.112 In/Sec	.555 G-s
MOV	.116 In/Sec	.094 G-s
MIH	.067 In/Sec	.267 G-s
MIV	.097 In/Sec	.107 G-s
MIA	.153 In/Sec	.040 G-s
GIH	.030 In/Sec	.059 G-s
GIV	.038 In/Sec	.029 G-s
GIA	.029 In/Sec	.013 G-s
GOH	.025 In/Sec	.036 G-s
GOV	.025 In/Sec	.022 G-s
GOA	.025 In/Sec	.016 G-s

B3-FRM-11 - #3 BOARD LINE DRIVE (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.064 In/Sec	1.262 G-s
MOV	.064 In/Sec	.188 G-s
MIH	.060 In/Sec	.419 G-s
MIV	.223 In/Sec	.192 G-s
MIA	.082 In/Sec	.211 G-s
G1I	.016 In/Sec	.197 G-s
GIV	.038 In/Sec	.064 G-s
G1A	.029 In/Sec	.056 G-s
G1O	.019 In/Sec	.091 G-s
G2O	.017 In/Sec	.069 G-s
GOV	.022 In/Sec	.058 G-s
G2I	.019 In/Sec	.128 G-s
G2A	.037 In/Sec	.040 G-s

B3-KBS-02 - WET END CIRCULATION FAN (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.109 In/Sec	.667 G-s

MOV	.019 In/Sec	.061 G-s
MIH	.106 In/Sec	.767 G-s
MIV	.024 In/Sec	.125 G-s
MIA	.023 In/Sec	.079 G-s
FIH	.128 In/Sec	.057 G-s
FIV	.039 In/Sec	.029 G-s
FIA	.106 In/Sec	.011 G-s
FOH	.086 In/Sec	.015 G-s
FOV	.044 In/Sec	.010 G-s
FOA	.071 In/Sec	.0079 G-s

B3KBS01BLW - WET END COMBUSTION BLOWER (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.049 In/Sec	.368 G-s
MOV	.060 In/Sec	.094 G-s
MIH	.069 In/Sec	.713 G-s
MIV	.228 In/Sec	.138 G-s
MIA	.078 In/Sec	.101 G-s
BIH	.101 In/Sec	1.360 G-s
BIV	.067 In/Sec	.349 G-s
BIA	.079 In/Sec	.415 G-s
BOH	.084 In/Sec	1.804 G-s
BOV	.153 In/Sec	.850 G-s

B3-KBS-05 - DRY END CIRCULATION FAN (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.095 In/Sec	.488 G-s
MOV	.121 In/Sec	.086 G-s
MIH	.093 In/Sec	.793 G-s
MIV	.097 In/Sec	.109 G-s
MIA	.103 In/Sec	.151 G-s
FIH	.062 In/Sec	.156 G-s
FIV	.015 In/Sec	.128 G-s
FIA	.037 In/Sec	.117 G-s
FOH	.052 In/Sec	.062 G-s
FOV	.013 In/Sec	.029 G-s
FOA	.031 In/Sec	.032 G-s

B3KBS04BLW - DRY END COMBUSTION BLOWER (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.036 In/Sec	.414 G-s
MOV	.084 In/Sec	.166 G-s
MIH	.063 In/Sec	.649 G-s
MIV	.081 In/Sec	.106 G-s
MIA	.061 In/Sec	.196 G-s
BIH	.099 In/Sec	.938 G-s
BIV	.059 In/Sec	.166 G-s
BIA	.133 In/Sec	.088 G-s
BOH	.085 In/Sec	.458 G-s
BOV	.105 In/Sec	.078 G-s

B3-KBS-07 - LINE 3 KILN EXHAUST FAN (28-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.041 In/Sec	.506 G-s
MOV	.068 In/Sec	.164 G-s
MIH	.052 In/Sec	1.004 G-s
MIV	.061 In/Sec	.234 G-s
MIA	.044 In/Sec	.339 G-s
FIH	.013 In/Sec	.0068 G-s
FIV	.017 In/Sec	.0050 G-s
FIA	.019 In/Sec	.0040 G-s
FOH	.014 In/Sec	.0016 G-s
FOV	.012 In/Sec	.0026 G-s
FOA	.016 In/Sec	.0026 G-s

Area: LINE 3 FINISHING

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
HIPRSWTRP - HI-PRESSURE WATER PUMP	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.149 In/Sec	1.645 G-s
MOV	.467 In/Sec	.232 G-s
MIH	.129 In/Sec	1.231 G-s
MIV	.439 In/Sec	.262 G-s
MIA	.135 In/Sec	.475 G-s
P1H	.377 In/Sec	1.115 G-s
P1V	.422 In/Sec	.317 G-s
P1A	.505 In/Sec	.341 G-s
P2H	.194 In/Sec	1.751 G-s
P2V	.441 In/Sec	.608 G-s
P2A	.300 In/Sec	.354 G-s
FINSHSHRD - FINISHING SHEDDER	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.107 In/Sec	.520 G-s
MOV	.184 In/Sec	.237 G-s
MIH	.087 In/Sec	.563 G-s
MIV	.158 In/Sec	.094 G-s
MIA	.093 In/Sec	.146 G-s
GH	.064 In/Sec	.196 G-s
GV	.108 In/Sec	.062 G-s
GA	.068 In/Sec	.055 G-s
SH	.061 In/Sec	.096 G-s
SV	.112 In/Sec	.070 G-s
SA	.061 In/Sec	.108 G-s
F3-GRD-01 - LINE 3 FINISH GRINDER #1	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.373 In/Sec	.358 G-s
MOV	.745 In/Sec	.093 G-s
MIH	.174 In/Sec	.329 G-s
MIV	.266 In/Sec	.066 G-s
MIA	.190 In/Sec	.173 G-s
GIH	.071 In/Sec	.132 G-s
GIV	.200 In/Sec	.030 G-s
GIA	.182 In/Sec	.033 G-s
F3-GRD-02 - LINE 3 FINISH GRINDER #2	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.158 In/Sec	.528 G-s
MOV	.465 In/Sec	.189 G-s
MIH	.188 In/Sec	.393 G-s
MIV	.144 In/Sec	.067 G-s
MIA	.046 In/Sec	.101 G-s
GIH	.097 In/Sec	.197 G-s
GIV	.082 In/Sec	.053 G-s
GIA	.025 In/Sec	.054 G-s
F3-GRD-04 - LINE 3 FINISH GRINDER #4	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.301 In/Sec	.436 G-s
MOV	.201 In/Sec	.121 G-s
MIH	.145 In/Sec	.269 G-s
MIV	.071 In/Sec	.134 G-s
MIA	.084 In/Sec	.102 G-s
GIH	.055 In/Sec	.178 G-s
GIV	.079 In/Sec	.071 G-s
GIA	.106 In/Sec	.084 G-s
F3-GRD-05 - LINE 3 GRINDER DRIVE	**(29-May-25)**	
	OVERALL LEVEL	**1K-20KHz**
MOH	.063 In/Sec	.793 G-s
MOV	.146 In/Sec	.265 G-s
MIH	.077 In/Sec	1.255 G-s

MIV	.182 In/Sec	.209 G-s
MIA	.101 In/Sec	.149 G-s
G1I	.075 In/Sec	1.182 G-s
GIV	.084 In/Sec	.324 G-s
G1A	.072 In/Sec	.438 G-s
G2O	.078 In/Sec	.814 G-s
GOV	.109 In/Sec	.204 G-s
G2A	.057 In/Sec	.389 G-s

B3KFS4LUBP - L3 KILN GEARBOX LUBE OIL PMP (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.115 In/Sec	.358 G-s
MOV	.123 In/Sec	.161 G-s
MIH	.060 In/Sec	.416 G-s
MIV	.097 In/Sec	.116 G-s
MIA	.066 In/Sec	.133 G-s
GH	.093 In/Sec	.536 G-s
GV	.065 In/Sec	.175 G-s
GA	.055 In/Sec	.235 G-s
PH	.179 In/Sec	.256 G-s
PV	.102 In/Sec	.131 G-s
PA	.269 In/Sec	.183 G-s

F3-PAD-06 - BLUE OVEN 1 ZONE1 CIRC FAN 1 (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.257 In/Sec	.564 G-s
MOV	.178 In/Sec	.176 G-s
MIH	.571 In/Sec	.855 G-s
MIV	.348 In/Sec	.163 G-s
MIA	.559 In/Sec	.308 G-s
FIH	.591 In/Sec	.638 G-s
FIV	.364 In/Sec	.177 G-s
FIA	.374 In/Sec	.132 G-s
FOH	.207 In/Sec	2.149 G-s
FOV	.261 In/Sec	.610 G-s

OVN1ZNE1F2 - BLUE OVEN 1 ZONE1 CIRC FAN 2 (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.127 In/Sec	.585 G-s
MOV	.199 In/Sec	.101 G-s
MIH	.144 In/Sec	.483 G-s
MIV	.224 In/Sec	.052 G-s
MIA	.290 In/Sec	.048 G-s
FIH	.256 In/Sec	.811 G-s
FIV	.366 In/Sec	.152 G-s
FIA	.221 In/Sec	.185 G-s
FOH	.100 In/Sec	.593 G-s
FOV	.140 In/Sec	.186 G-s

OVN1ZNE2F1 - BLUE OVEN 1 ZONE2 CIRC FAN 1 (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.197 In/Sec	1.371 G-s
MOV	.600 In/Sec	.355 G-s
MIH	1.040 In/Sec	.592 G-s
MIV	.958 In/Sec	.165 G-s
MIA	2.104 In/Sec	.222 G-s
FIH	.645 In/Sec	.919 G-s
FIV	1.311 In/Sec	.175 G-s
FIA	.960 In/Sec	.126 G-s
FOH	.248 In/Sec	.946 G-s
FOV	.159 In/Sec	.315 G-s

OVN1ZNE2F2 - BLUE OVEN 1 ZONE2 CIRC FAN 2 (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.438 In/Sec	.738 G-s
MOV	1.040 In/Sec	.221 G-s
MIH	.736 In/Sec	1.043 G-s
MIV	1.950 In/Sec	.355 G-s
MIA	.317 In/Sec	.295 G-s
FIH	1.014 In/Sec	.595 G-s

	FIV	1.627 In/Sec	.103 G-s
	FIA	.908 In/Sec	.136 G-s
	FOH	.307 In/Sec	4.079 G-s
	FOV	.545 In/Sec	.430 G-s

OVEN2Z1FAN - BLUE OVEN 2 ZONE1 CIRC FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.235 In/Sec	.305 G-s
MOV	.656 In/Sec	.117 G-s
MIH	.481 In/Sec	.550 G-s
MIV	.740 In/Sec	.056 G-s
MIA	.483 In/Sec	.110 G-s
FIH	.420 In/Sec	.530 G-s
FIV	.548 In/Sec	.265 G-s
FIA	.392 In/Sec	.151 G-s
FOH	.162 In/Sec	2.464 G-s
FOV	.199 In/Sec	.581 G-s

OVEN2Z2FAN - BLUE OVEN 2 ZONE2 CIRC FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.253 In/Sec	.698 G-s
MOV	.284 In/Sec	.171 G-s
MIH	.715 In/Sec	.752 G-s
MIV	.445 In/Sec	.172 G-s
MIA	.632 In/Sec	.262 G-s
FIH	.592 In/Sec	.647 G-s
FIV	.372 In/Sec	.145 G-s
FIA	.526 In/Sec	.172 G-s
FOH	.155 In/Sec	.406 G-s
FOV	.111 In/Sec	.137 G-s

D1DCR02EXH - #1 GRINDER BAGHOUSE DC FAN (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.262 In/Sec	.185 G-s
MOV	.848 In/Sec	.061 G-s
MIH	.208 In/Sec	.588 G-s
MIV	.373 In/Sec	.094 G-s
MIA	.277 In/Sec	.083 G-s
FIH	.381 In/Sec	1.054 G-s
FIV	.276 In/Sec	1.929 G-s
FIA	.596 In/Sec	.294 G-s
FOH	.446 In/Sec	.761 G-s
FOV	.244 In/Sec	3.591 G-s

D1DCR03EXH - #2 FINISHING DUST COLLECTOR (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.223 In/Sec	.529 G-s
MOV	.227 In/Sec	.149 G-s
MIH	.147 In/Sec	3.227 G-s
MIV	.283 In/Sec	.457 G-s
MIA	.329 In/Sec	.446 G-s
FIH	.413 In/Sec	1.717 G-s
FIV	.364 In/Sec	.341 G-s
FIA	.479 In/Sec	.286 G-s
FOH	.186 In/Sec	1.216 G-s
FOV	.193 In/Sec	.452 G-s

D1DCR01EXH - #3 FINISHING DUST COLLECTOR (29-May-25)

	OVERALL LEVEL	1K-20KHz
MOH	.278 In/Sec	1.920 G-s
MOV	.698 In/Sec	.497 G-s
MIH	.148 In/Sec	.799 G-s
MIV	.626 In/Sec	.195 G-s
MIA	.205 In/Sec	.272 G-s
FIH	.415 In/Sec	1.314 G-s
FIV	.236 In/Sec	.300 G-s
FIA	.550 In/Sec	.383 G-s
FOH	.352 In/Sec	.826 G-s
FOV	.200 In/Sec	.139 G-s

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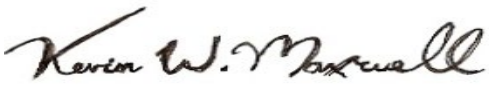
As always, it has been a pleasure to serve USG Greenville, MS. If there are any comments or questions, do not hesitate to contact us.

Sincerely,



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