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February 16, 2021

South Shelby RNG Memphis, TN

The following is a summary of findings from the monthly vibration survey that was performed on February 10, 2021. Please let us know if there are any questions or comments.

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

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

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

<u>Class III</u>; 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

Hi-Speed Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

Defects

C-0600A Feed Gas Compressor

Motor still has a slightly higher than normal 1 x rpm vibration in the horizontal direction DE and ODE. Compressor also has high vibrations that are related to 4 x the speed of the male rotor. Compressor vibrations were higher this month. Rated as a **CLASS I** defect for now.

C-0600 B Feed Gas Compressor

Compressor is showing 1/3 harmonics of the male rotor fundamental (1 x rpm). This indicates some type of internal fit looseness. Unit is also still experiencing some 1 x motor horizontal vibration. Internal male rotor looseness may be causing the 4 x rpm and harmonics thereof also seen in the compressor data. We will continue to monitor closely. Rated as a **CLASS I** defect.

C-0600 C Feed Gas Compressor

Motor still has a slightly higher than normal 1 x rpm vibration in the horizontal direction DE and ODE. Compressor also has high vibrations that are related to 4 x the speed of the male rotor. Compressor vibrations were higher this month. We will continue to monitor these issues closely. Rated as a **CLASS I** defect for now.

BLR-0200 A, B, C, and D LFG Blowers

These blowers also have very high amplitudes of velocity and high frequency vibrations this survey and it is even higher than the survey last month. Blower outboard axials were also very high this month and may be process related. Multiple harmonics at what appears to be 8 x blower rpm are present and is dominant in blower data. Amplitudes range from 3 to nearly 40 g's peak to peak which seems very high for new equipment; however, this is likely a characteristic of this blower and we need to continue to establish a trend. Rated as **CLASS I** defects for now.

C-1300 Sales Gas Compressor Stage 1

This compressor has elevated 1 x rpm vibration but not as high as the Feed Gas Compressors. This is an indication of a structural base issue. Compressor base directly under compressor is weak and likely needs to be stiffened or redesigned. Rated as a **CLASS I** defect for now.

C-1300 Sales Gas Compressor Stage 2

Overall vibration was much lower in the compressor this month. Motor vibration was also lower. The high 2 x rpm vibration seen last month was possibly due to a resonant frequency coinciding with a forcing frequency from the compressor. We are possibly planning on performing some other vibration testing with the VFD in local control so we can determine what frequencies may be causing the vibrations seen recently. Rated as a **CLASS I** defect for now.

Abbreviated Last Measurement Summary

Database: South Shelby RNG.rbm

MOH .079 In/Sec .615 G-s
MOV .052 In/Sec .425 G-s
MIH .089 In/Sec .544 G-s
MIV .078 In/Sec .614 G-s
MIA .075 In/Sec .818 G-s

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.205 In/Sec 3.018 G-s
.165 In/Sec 2.343 G-s
.171 In/Sec 2.192 G-s
.340 In/Sec 5.424 G-s
.276 In/Sec 4.397 G-s
.77/Sec 3.774 G-s
        CIA
        CIH
       CIV
       COH
       COV
       COA
C-551A - C-551A VACUUM COMPRESSOR A (10-Feb-21)
                                 OVERALL LEVEL
                                                      1K-20KHz
                                  .120 In/Sec
       MOH
                                                    1.778 G-s
                                   .056 In/Sec
                                                    .664 G-s
       MOV
                                                     .762 G-s
                                   .092 In/Sec
       MIH
                                                     .808 G-s
       MIV
                                   .092 In/Sec
                                                       .445 G-s
       MIA
                                  .062 In/Sec
       CIA
                                  .313 In/Sec
                                                      4.751 G-s
       CIH
                                  .283 In/Sec
                                                     2.898 G-s
                                                    3.042 G-s
                                  .246 In/Sec
       CIV
                                                    4.126 G-s
                                  .271 In/Sec
       COH
                                   .406 In/Sec
       COV
                                                    5.166 G-s
                                  .318 In/Sec
       COA
                                                    4.694 G-s
C-601B - C-601B N2 RECYCLE COMP B (10-Feb-21)
                                 OVERALL LEVEL 1K-20KHz
                                  .120 In/Sec
       MOH
                                                     .754 G-s
                                  .037 In/Sec
                                                     .609 G-s
       MOV
                                                     .693 G-s
       MIH
                                  .113 In/Sec
                                                   .515 G-s
       MIV
                                  .034 In/Sec
                                                      .557 G-s
       MIA
                                  .058 In/Sec
       CIA
                                  .210 In/Sec
                                                     1.756 G-s
                                  .123 In/Sec .972 G-s

.141 In/Sec .141 G-s

.141 In/Sec .1489 G-s

.095 In/Sec .169 G-s

.100 In/Sec .2.231 G-s
       CIH
       CIV
       COH
       COV
       COA
C-601A - C-601A N2 RECYCLE COMP A (10-Feb-21)
                                 OVERALL LEVEL 1K-20KHz
                                                     .379 G-s
                                   .038 In/Sec
       MOH
                                                     .704 G-s
                                   .039 In/Sec
       MOV
                                                     .582 G-s
       MIH
                                   .076 In/Sec
                                                     .520 G-s
                                   .036 In/Sec
       MIV
                                  .043 In/Sec
       MIA
                                                       .758 G-s
                                  .129 In/Sec
                                                      1.354 G-s
       CIA
        CIH
                                  .133 In/Sec
                                                      1.417 G-s
                                  .122 In/Sec
       CIV
                                                     1.434 G-s
                                  .131 In/Sec
                                                    1.993 G-s
       COH
                                  .132 In/Sec
                                                    1.600 G-s
       COV
                                  .126 In/Sec
       COA
                                                     3.104 G-s
C-0600A - C-0600A FEED GAS COMP A (10-Feb-21)
                                 OVERALL LEVEL 1K-20KHz
                                  .412 In/Sec
       MOH
                                                     5.132 G-s
                                  .274 In/Sec
                                                    3.957 G-s
       MOV
                                  .239 In/Sec .827 G-s
.146 In/Sec 1.897 G-s
.195 In/Sec 2.962 G-s
       MTH
       MIV
       MIA
                                  .473 In/Sec
       CIA
                                                     6.049 G-s
                                  .337 In/Sec
       CIH
                                                     3.123 G-s
                                  .481 In/Sec 6.164 G-s
.441 In/Sec 4.285 G-s
.465 In/Sec 3.134 G-s
.423 In/Sec 3.584 G-s
.337 In/Sec 1.680 G-s
.213 In/Sec .985 G-s
.840 In/Sec 1.931 G-s
.127 In/Sec .886 G-s
       CIV
                                  .481 In/Sec
                                                     6.164 G-s
       COH
       COV
       COA
       P1
       P2
        Р3
                                                    .886 G-s
        P4
                                  .127 In/Sec
        P5
                                  .258 In/Sec
                                                      .962 G-s
                                  P6
        Р7
        Р8
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P9		.758 In/Sec	.919 G-s
P10		.118 In/Sec	1.251 G-s
P11		.120 In/Sec	.445 G-s
P12		.190 In/Sec	
P13		.384 In/Sec	
		•	
P14		.312 In/Sec	
VSI		.490 In/Sec	
VLW		.371 In/Sec	.425 G-s
VSL		.190 In/Sec	.344 G-s
VRW		.430 In/Sec	.403 G-s
2SL		.572 In/Sec	.824 G-s
2SW		.427 In/Sec	
2SR		.226 In/Sec	
2RW		.196 In/Sec	.622 G-s
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C-0600B	- C-0600B FEED		(10-Feb-21)
		OVERALL LEVEL	
MOH		.334 In/Sec	1.383 G-s
MOV		.234 In/Sec	1.994 G-s
MIH		.270 In/Sec	.466 G-s
MIV		.121 In/Sec	
MIA		.121 In/Sec	
CIA		.398 In/Sec	
CIH		.381 In/Sec	3.785 G-s
CIV		.518 In/Sec	6.039 G-s
СОН		.382 In/Sec	2.365 G-s
COV		.369 In/Sec	
COA		.377 In/Sec	
P1		.561 In/Sec	
		•	
P2		.496 In/Sec	
Р3		.499 In/Sec	
P4		.336 In/Sec	
P5		.703 In/Sec	.964 G-s
P6		.943 In/Sec	2.011 G-s
P7		.310 In/Sec	
P8		.334 In/Sec	
		· .	
P9		.493 In/Sec	.868 G-s
P10		.669 In/Sec	
P11		.376 In/Sec	.690 G-s
P12		.401 In/Sec	.521 G-s
P13		.547 In/Sec	.688 G-s
P14		.838 In/Sec	
VLL		1.586 In/Sec	.915 G-s
VLW		.804 In/Sec	1.146 G-s
VRL		1.210 In/Sec	
VRW		.682 In/Sec	.939 G-s
C-0600C	- C-0600C FEED	GAS COMP C	(10-Feb-21)
		OVERALL LEVEL	1K-20KHz
MOH		.401 In/Sec	1.133 G-s
MOV		.4UI IN/Sec	
		.401 In/Sec	1.068 G-s
		.138 In/Sec	1.068 G-s
MIH		.138 In/Sec .347 In/Sec	1.068 G-s 1.832 G-s
MIH MIV		.138 In/Sec .347 In/Sec .136 In/Sec	1.068 G-s 1.832 G-s .687 G-s
MIH MIV MIA		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s
MIH MIV MIA CIA		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s
MIH MIV CIA CIH		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s
MIH MIV MIA CIA		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s
MIH MIV CIA CIH		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s
MIH MIV MIA CIA CIV COH		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s
MIH MIV MIA CIA CIH CIV COH COV		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s
MIH MIV MIA CIA CIV COH COV COA		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s
MIH MIV MIA CIA CIH CIV COH COV COA		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s
MIH MIV MIA CIA CIH CIV COH COV COA P1 P2		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec .291 In/Sec .291 In/Sec .153 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec .291 In/Sec .153 In/Sec .151 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3		.138 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec .291 In/Sec .291 In/Sec .153 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec .291 In/Sec .153 In/Sec .151 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4 P5		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .210 In/Sec .200 In/Sec .291 In/Sec .153 In/Sec .151 In/Sec .473 In/Sec .331 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s 1.337 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4 P5 P6		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .201 In/Sec .210 In/Sec .210 In/Sec .210 In/Sec .211 In/Sec .331 In/Sec .331 In/Sec .225 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s 1.337 G-s .883 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4 P5 P6 P7		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .201 In/Sec .210 In/Sec .210 In/Sec .210 In/Sec .211 In/Sec .331 In/Sec .331 In/Sec .331 In/Sec .439 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s 1.337 G-s .883 G-s 1.124 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4 P5 P6 P7 P8		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .201 In/Sec .210 In/Sec .210 In/Sec .210 In/Sec .211 In/Sec .331 In/Sec .331 In/Sec .331 In/Sec .473 In/Sec .439 In/Sec .439 In/Sec .187 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s 1.337 G-s .883 G-s 1.124 G-s 1.017 G-s
MIH MIV MIA CIA CIH CIV COH COV P1 P2 P3 P4 P5 P6 P7		.138 In/Sec .347 In/Sec .347 In/Sec .136 In/Sec .202 In/Sec .304 In/Sec .277 In/Sec .242 In/Sec .245 In/Sec .201 In/Sec .201 In/Sec .210 In/Sec .210 In/Sec .210 In/Sec .211 In/Sec .331 In/Sec .331 In/Sec .331 In/Sec .439 In/Sec	1.068 G-s 1.832 G-s .687 G-s 2.858 G-s 1.616 G-s 2.379 G-s 3.315 G-s 2.452 G-s 1.847 G-s 2.677 G-s .443 G-s .479 G-s .980 G-s .626 G-s .622 G-s 1.337 G-s .883 G-s 1.124 G-s

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.291 G-s
        P11
                                    .232 In/Sec
                                                       .406 G-s
.607 G-s
        P12
                                    .192 In/Sec
                                    .274 In/Sec
       P13
                                    .207 In/Sec
                                                      1.780 G-s
       P14
                                                      .838 G-s
                                    .638 In/Sec
        VSL
        SLW
                                    .719 In/Sec
                                                        .877 G-s
                                    .227 In/Sec
        SRL
                                                        .891 G-s
       RSW
                                    .877 In/Sec
                                                      1.583 G-s
BLR-0200A - BLR-0200A LFG BLOWER A
                                            (10-Feb-21)
                                  OVERALL LEVEL 1K-20KHz
                                    .123 In/Sec 1.049 G-s
       MOH
                                    .070 In/Sec
                                                        .826 G-s
       MOV
                                    .193 In/Sec
                                                       2.925 G-s
        MIH
       MIV
                                    .135 In/Sec
                                                       1.340 G-s
       MIA
                                    .117 In/Sec
                                                       1.522 G-s
                                                      13.76 G-s
                                    .784 In/Sec
       BIA
                                   .709 In/Sec
                                                      10.23 G-s
       BIH
                                   .745 In/Sec
                                                      8.964 G-s
       BIV
                                   .898 In/Sec
                                                      12.55 G-s
       BOH
                                  1.046 In/Sec 18 20 C
       BOV
       BOA
BLR-0200B - BLR-0200B LFG BLOWER B (10-Feb-21)
                                  OVERALL LEVEL 1K-20KHz
                                    .162 In/Sec
                                                       2.180 G-s
       MOH
                                  .102 In/Sec 2.180 G-S
.082 In/Sec .976 G-S
.190 In/Sec 2.965 G-S
.194 In/Sec 2.643 G-S
.092 In/Sec 1.038 G-S
.533 In/Sec 8.992 G-S
.726 In/Sec 10.92 G-S
.491 In/Sec 6.660 G-S
.431 In/Sec 6.694 G-S
.506 In/Sec 8.469 G-S
1.204 In/Sec 15.65 G-S
                                                       .976 G-s
                                    .082 In/Sec
       MOV
       MIH
       MIV
       MIA
       BIA
       BIH
       BIV
       BOH
       BOV
       BOA
BLR-0200D - BLR-0200D LFG BLOWER D (10-Feb-21)
                                  OVERALL LEVEL 1K-20KHz
                                    .181 In/Sec
       MOH
                                                      2.142 G-s
                                                      1.102 G-s
                                    .149 In/Sec
       MOV
                                   .282 In/Sec
225 In/Sec
                                                       4.396 G-s
       MIH
                                                       2.089 G-s
       MIV
       MIA
                                    .169 In/Sec
                                                       2.431 G-s
                                    .940 In/Sec
                                                       14.26 G-s
        BIA
                                    .889 In/Sec
                                                      12.93 G-s
       BIH
                                    .712 In/Sec
                                                      10.27 G-s
       BIV
                                    .850 In/Sec
                                                      13.06 G-s
       BOH
                                   .546 In/Sec
                                                     8.760 G-s
       BOV
       BOA
                                    .976 In/Sec
                                                      17.79 G-s
C-1300 - C-1300 SALES GAS COMP STG 1 (10-Feb-21)
                                   OVERALL LEVEL 1K-20KHz
                                    .114 In/Sec
       MOH
                                                        1.536 G-s
                                    .212 In/Sec
       MOV
                                                     2.973 G-s
                                   .212 In/Sec 2.973 G-s
.085 In/Sec 1.106 G-s
.079 In/Sec .670 G-s
.247 In/Sec 3.843 G-s
.206 In/Sec 1.408 G-s
.182 In/Sec 1.852 G-s
.306 In/Sec 2.620 G-s
.169 In/Sec 1.197 G-s
.329 In/Sec 1.970 G-s
.157 In/Sec 1.496 G-s
       MIH
       MIV
       MIA
        CIA
        CIH
        CIV
       COH
        COV
        COA
                                    .074 In/Sec
                                                      .199 G-s
        P1
                                                       .853 G-s
        P2
                                   .140 In/Sec
                                                       .756 G-s
        Р3
                                   .277 In/Sec
                                                       .198 G-s
                                   .063 In/Sec
        P4
        P5
                                    .236 In/Sec
                                                       .425 G-s
                                                       .630 G-s
                                    .306 In/Sec
        P6
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.675 G-s
      P7
                              .272 In/Sec
                                              .728 G-s
.326 G-s
.459 G-s
      Р8
                              .250 In/Sec
                              .187 In/Sec
      Р9
                              .181 In/Sec
      P10
                              .067 In/Sec
                                               .485 G-s
      P11
      P12
                              .068 In/Sec
                                               .565 G-s
                              .096 In/Sec
      P13
                                               .521 G-s
                              .134 In/Sec
                                             1.418 G-s
      P14
      VSL
                              .466 In/Sec
                                               .589 G-s
                              .901 In/Sec
                                               .554 G-s
      VSR
C-1304
          - C-1304 SALES GAS COMP STG 2 (10-Feb-21)
                             OVERALL LEVEL 1K-20KHz
                                              .660 G-s
                              .136 In/Sec
      MOH
                                               .644 G-s
      MOV
                              .130 In/Sec
      MIH
                              .186 In/Sec
                                               .822 G-s
                              .142 In/Sec
      MIV
                                               .344 G-s
                                               .425 G-s
                              .155 In/Sec
      MIA
                              .216 In/Sec
                                               .684 G-s
      CIA
                              .244 In/Sec
      CIH
                                               .577 G-s
                              .110 In/Sec
                                               .686 G-s
      CIV
      COH
                              .243 In/Sec
                                               .210 G-s
      COV
                              .095 In/Sec
                                               .383 G-s
      COA
                              .152 In/Sec
                                               .706 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 South Shelby RNG. If there are any comments or questions, do not hesitate to contact us.

Sincerely,

ISO Certified Vibration Analyst, Category III

Kevin W. Mozewell



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