



May 21, 2020

Lucite

Subject: May vibration report

Most of the machines surveyed were found to be in good condition with the exception of the following:

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

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.

This completes our assessment of your equipment for this survey. Thank you for your business and don't hesitate to call if you have any comments or questions.

Sincerely,

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Detailed Defects

SAR 03 Turbine Compressor Main Blower

The data seems to indicate the proximity probes have been switched to indicate proper orientation. This will help to better identify actual location of anomalies. The vibrations are also mostly down for the compressor readings after recent service; however, we are going to keep this unit under surveillance due to the harmonics still seen in the data and **Rate this a Class I Defect for now.**

SAR 78B Cooling Tower Fan 2

The vibration data indicates the motor was replaced. No further actions are warranted.

MON132 Decanter Feed Pump Spare

A high 1xRPM vibration still appears to be in both the pump and motor bearings in the vertical. Inspect the unit for loose fasteners and structural issues. Check the coupling for wear and perform an alignment check and a shaft run out check. **Rated a Class II Defect.**

ACN 13B #2 Kettle Transfer Pump

The inboard motor bearing is showing signs of distress. Non-synchronous vibration harmonic peaks are evident in the data; however, the overall level has not changed much lately. We suggest replacing the motor this year. **Rated a Class II Defect.**

SAR55A Neutralization Pump North

Data indicates a sudden change in the motor bearings since the last survey. We believe they are in distress. Recommend replacing the motor in the next few months or possibly sooner. **Rated a Class II Defect for now.**

Observations

MON65 Amide Reactor Circulation Primary

The motor 1x rpm vibration has returned to normal for the unit; however, we would like to see it lower. Inspect as time allows. We will watch for changes. **Rated a Class I Defect.**

MON56 Inhibited MON transfer pump E

The overall vibration seems to zigzag up and down. The pump axial is at 0.34"/sec velocity peak and consists mostly of noise around 2-5 orders of shaft speed. We suspect recirculation caused by either pump wear or not running near the optimal point on the curve. Inspect as time allows. **Rated A Class I Defect.**

SAR 10 Process Air Fan E

Almost 4 g's RMS acceleration is still evident in the data. Higher speed fans like this one will usually generate more normally, so we will watch this unit closely. Make sure bearings are lubricated for service and environment. **Rated a Class I Defect.**

Pump ACN36 ACN Neutral Tank Circulation

The axial vibration is down 50%; however, the pump horizontal is still at 0.44"/sec velocity peak mostly at what looks to be vane pass (4x rpm). Inspect flow parameters and finally the pump internals if no other obvious issues are found. **Rated a Class I Defect.**

SAR66E Vertical Cooling Tower Pump 5

This unit still seems to have a sub-synchronous vibration in the motor as well as a slight rotor bar vibration. Some points look like a bad reading. There is also a slight sub synchronous peak just above 0.4 orders, which could indicate a bearing cage issue. We will watch this unit closely. **Rated a Class II Defect for now.**

SAR66B and SAR 66C Vertical Cooling Tower Pumps 2 and 3

These pumps still have a 1xRPM vibration at near 0.4"/second velocity peak. The vibration should be lowered if possible. Trim balancing might help if the unit is out. Check all fasteners for tightness and the shafts if possible, for runout. **Rated A Class I Defect.**

ACN28B ACN Fan E

A 1xRPM still dominates the velocity spectrum for the motor inboard vertical at 0.45"/sec velocity peak. Inspect the motor and structure. Inspect, clean, and trim balance the fan in the near future if possible. **Rated a Class II Defect.**

ACN13B #2 Kettle Transfer Pump South

The inboard motor bearing is showing signs of distress.

Non-synchronous vibration harmonic peaks are evident in the data; however, the overall level has not changed much lately. We suggest replacing the motor this year. **Rated a Class II Defect.**

MON 80 Uninhibited MON Tank Pump North

The motor Vibrations have dropped considerably. We will continue to watch this unit for changes. No further action suggested.

SAR 78A Cooling Tower Fan 1

The reported motor vibration has dropped somewhat. It is still above what we would like to see, but it's most likely normal for its use. No further action is required at this time.

SAR57B Oleum Tower Circulation Pump B

Recent vibration data now suggests cavitation is the main issue in the pump. There could also be wear in the pump bearings. Inspect the unit for operation in the optimal part of the pump curve. Cavitation can destroy the impeller quickly if unabated as well as other pump components. **Rated a Class II Defect.**

MON55NM Hut Pump North

Vibration data suggests the pump is not operating properly. We suspect the pump is not running in the curve at the optimal point. Inspect as time allows. **Rated a Class I Defect.**

SAR39A Boiler Feed Water Pump NW

The motor data shows 1x and 2x vibrations. We recommend inspecting the coupling and insert. Perform an alignment if possible. **Rated a Class I Defect.**

SAR127 Final Tower Pump Out Drain Pump

Route notes indicate unit has a leaking seal even though it wasn't running. Please inspect and repair.

Reported prior but not running this survey**ACN29B ACN Cooling Tower Pump M**

There still appears to be electrical, rotor bar and possibly bearing issues in the motor. The main vibration is above the Spectrum F max. Check the electrical connections, current and voltage and all fasteners as time allows. We will watch for changes going forward. No action required at this time. **Rated a Class I Defect.**

Raw Data for Route 1, 2 and Quarterly

Abbreviated Last Measurement Summary *****

Database: Lucite Memphis MMA.rbm
Area: MMA
Report Date: 21-May-20 07:39

MEASUREMENT POINT -----	OVERALL LEVEL -----	HFD / VHFD -----
MON45WM - ACH Ref Brine Pump W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.033 In/Sec	.794 G-s
MOP - Motor Outboard Horz Peakvue	.319 G-s	
MOV - Motor Outboard Vertical	.120 In/Sec	.345 G-s
MOA - Motor Outboard Axial	.087 In/Sec	.398 G-s
MIH - Motor Inboard Horizontal	.042 In/Sec	.967 G-s
MIP - Motor Inboard Horz Peakvue	.470 G-s	
MIV - Motor Inboard Vertical	.105 In/Sec	.684 G-s
MIA - Motor Inboard Axial	.089 In/Sec	.335 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.081 In/Sec	.889 G-s
PIP - Pump Inboard Horz Peakvue	.519 G-s	
PIV - Pump Inboard Vertical	.084 In/Sec	.287 G-s
PIA - Pump Inboard Axial	.062 In/Sec	.381 G-s
POH - Pump Outboard Horizontal	.052 In/Sec	1.153 G-s
POP - Pump Outboard Horz Peakvue	.719 G-s	
POV - Pump Outboard Vertical	.079 In/Sec	.375 G-s
POA - Pump Outboard Axial	.059 In/Sec	.406 G-s
ACN44 - ACN Ref Unit Booster #3	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.132 In/Sec	1.898 G-s
MOP - Motor Outboard Horz Peakvue	.051 G-s	
MOV - Motor Outboard Vertical	.272 In/Sec	.573 G-s
MOA - Motor Outboard Axial	.165 In/Sec	.470 G-s
MIH - Motor Inboard Horizontal	.259 In/Sec	.481 G-s
MIP - Motor Inboard Horz Peakvue	.040 G-s	
MIV - Motor Inboard Vertical	.254 In/Sec	.332 G-s
MIA - Motor Inboard Axial	.146 In/Sec	.433 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.106 In/Sec	.806 G-s
PIP - Pump Inboard Horz Peakvue	.306 G-s	
PIV - Pump Inboard Vertical	.214 In/Sec	.669 G-s
PIA - Pump Inboard Axial	.149 In/Sec	.448 G-s
POH - Pump Outboard Horizontal	.094 In/Sec	.436 G-s
POP - Pump Outboard Horz Peakvue	.107 G-s	
POV - Pump Outboard Vertical	.206 In/Sec	.383 G-s
POA - Pump Outboard Axial	.143 In/Sec	.221 G-s
MON81 - Uninhibited Mon Tank Pump S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.047 In/Sec	.160 G-s

MOP - Motor Outboard Horz Peakvue	.0073 G-s	
MOV - MotorOutboard Vertical	.034 In/Sec	.088 G-s
MOA - Motor Outboard Axial	.022 In/Sec	.033 G-s
MIH - Motor Inboard Horizontal	.054 In/Sec	.194 G-s
MIP - Motor Inboard Horz Peakvue	.022 G-s	
MIV - Motor Inboard Vertical	.037 In/Sec	.088 G-s
MIA - Motor Inboard Axial	.031 In/Sec	.039 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.136 In/Sec	.659 G-s
PIP - Pump Inboard Horz Peakvue	.049 G-s	
PIV - Pump Inboard Vertical	.103 In/Sec	.273 G-s
PIA - Pump Inboard Axial	.104 In/Sec	.290 G-s
MON80 - Uninhibited Mon Tank Pump N	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.052 In/Sec	.172 G-s
MOP - Motor Outboard Horz Peakvue	.011 G-s	
MOV - MotorOutboard Vertical	.039 In/Sec	.357 G-s
MOA - Motor Outboard Axial	.108 In/Sec	.322 G-s
MIH - Motor Inboard Horizontal	.091 In/Sec	.182 G-s
MIP - Motor Inboard Horz Peakvue	.019 G-s	
MIV - Motor Inboard Vertical	.116 In/Sec	.030 G-s
MIA - Motor Inboard Axial	.113 In/Sec	.048 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.135 In/Sec	.121 G-s
PIP - Pump Inboard Horz Peakvue	.010 G-s	
PIV - Pump Inboard Vertical	.035 In/Sec	.047 G-s
PIA - Pump Inboard Axial	.074 In/Sec	.064 G-s
MON56 - Inhibited Mon Xfer Pump E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.068 In/Sec	.505 G-s
MOP - Motor Outboard Horz Peakvue	.036 G-s	
MOV - Motor Outboard Vertical	.049 In/Sec	.080 G-s
MOA - Motor Outboard Axial	.109 In/Sec	.144 G-s
MIH - Motor Inboard Horizontal	.088 In/Sec	.307 G-s
MIP - Motor Inboard Horz Peakvue	.094 G-s	
MIV - Motor Inboard Vertical	.053 In/Sec	.105 G-s
MIA - Motor Inboard Axial	.109 In/Sec	.105 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.313 In/Sec	1.082 G-s
PIP - Pump Inboard Horz Peakvue	.177 G-s	
PIV - Pump Inboard Vertical	.230 In/Sec	.703 G-s
PIA - Pump Inboard Axial	.340 In/Sec	.340 G-s
MON40 - Acetone Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.028 In/Sec	.494 G-s
MOP - Motor Outboard Horz Peakvue	.070 G-s	
MOV - Motor Outboard Vertical	.041 In/Sec	.209 G-s
MOA - Motor Outboard Axial	.037 In/Sec	.147 G-s
MIH - Motor Inboard Horizontal	.023 In/Sec	.753 G-s
MIP - Motor Inboard Horz Peakvue	.111 G-s	
MIV - Motor Inboard Vertical	.039 In/Sec	.100 G-s
MIA - Motor Inboard Axial	.020 In/Sec	.117 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.132 In/Sec	.836 G-s

PIP - Pump Inboard Horz Peakvue	.454 G-s	
PIV - Pump Inboard Vertical	.122 In/Sec	.636 G-s
PIA - Pump Inboard Axial	.064 In/Sec	.582 G-s
ACN08 - ACH Blend Tank	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.114 In/Sec	.286 G-s
MOP - Motor Outboard Horz Peakvue	.081 G-s	
MOV - Motor Outboard Vertical	.198 In/Sec	.129 G-s
MOA - Motor Outboard Axial	.127 In/Sec	.192 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	.228 G-s
MIP - Motor Inboard Horz Peakvue	.073 G-s	
MIV - Motor Inboard Vertical	.217 In/Sec	.106 G-s
MIA - Motor Inboard Axial	.127 In/Sec	.163 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.080 In/Sec	.403 G-s
PIP - Pump Inboard Horz Peakvue	.136 G-s	
PIV - Pump Inboard Vertical	.038 In/Sec	.219 G-s
PIA - Pump Inboard Axial	.076 In/Sec	.133 G-s
ACN07B - ACH Prod Feed Pump M	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.092 In/Sec	.939 G-s
MOP - Motor Outboard Horz Peakvue	.219 G-s	
MOV - Motor Outboard Vertical	.062 In/Sec	.283 G-s
MOA - Motor Outboard Axial	.047 In/Sec	.322 G-s
MIH - Motor Inboard Horizontal	.088 In/Sec	1.213 G-s
MIP - Motor Inboard Horz Peakvue	.389 G-s	
MIV - Motor Inboard Vertical	.055 In/Sec	.327 G-s
MIA - Motor Inboard Axial	.055 In/Sec	.347 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.180 In/Sec	1.656 G-s
PIP - Pump Inboard Horz Peakvue	.330 G-s	
PIV - Pump Inboard Vertical	.134 In/Sec	.717 G-s
PIA - Pump Inboard Axial	.124 In/Sec	.692 G-s
MON85E - Water Treatment Pmp E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.114 In/Sec	.490 G-s
MOP - Motor Outboard Horz Peakvue	.214 G-s	
MOV - Motor Outboard Vertical	.081 In/Sec	.175 G-s
MOA - Motor Outboard Axial	.065 In/Sec	.148 G-s
MIH - Motor Inboard Horizontal	.148 In/Sec	.493 G-s
MIP - Motor Inboard Horz Peakvue	.137 G-s	
MIV - Motor Inboard Vertical	.178 In/Sec	.122 G-s
MIA - Motor Inboard Axial	.084 In/Sec	.193 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.237 In/Sec	.663 G-s
PIP - Pump Inboard Horz Peakvue	.485 G-s	
PIV - Pump Inboard Vertical	.121 In/Sec	.492 G-s
PIA - Pump Inboard Axial	.115 In/Sec	.399 G-s
MON85W - Water Treatment Pmp W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.082 In/Sec	.340 G-s
MOP - Motor Outboard Horz Peakvue	.163 G-s	
MOV - Motor Outboard Vertical	.150 In/Sec	.136 G-s

MOA - Motor Outboard Axial	.090 In/Sec	.068 G-s
MIH - Motor Inboard Horizontal	.075 In/Sec	.376 G-s
MIP - Motor Inboard Horz Peakvue	.175 G-s	
MIV - Motor Inboard Vertical	.095 In/Sec	.174 G-s
MIA - Motor Inboard Axial	.102 In/Sec	.090 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.110 In/Sec	.699 G-s
PIP - Pump Inboard Horz Peakvue	.486 G-s	
PIV - Pump Inboard Vertical	.119 In/Sec	.285 G-s
PIA - Pump Inboard Axial	.101 In/Sec	.292 G-s

ACN28B - ACN Fan E	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.229 In/Sec	.528 G-s
MOP - Motor Outboard Horz Peakvue	.174 G-s	
MOV - Motor Outboard Vertical	.176 In/Sec	.705 G-s
MOA - Motor Outboard Axial	.135 In/Sec	.246 G-s
MIH - Motor Inboard Horizontal	.294 In/Sec	.685 G-s
MIP - Motor Inboard Horz Peakvue	.110 G-s	
MIV - Motor Inboard Vertical	.448 In/Sec	.253 G-s
MIA - Motor Inboard Axial	.142 In/Sec	.090 G-s

ACN29C - ACN Cool Twr Pump S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.040 In/Sec	.695 G-s
MOP - Motor Outboard Horz Peakvue	.237 G-s	
MOV - Motor Outboard Vertical	.049 In/Sec	.236 G-s
MOA - Motor Outboard Axial	.041 In/Sec	.421 G-s
MIH - Motor Inboard Horizontal	.038 In/Sec	.565 G-s
MIP - Motor Inboard Horz Peakvue	.257 G-s	
MIV - Motor Inboard Vertical	.050 In/Sec	.275 G-s
MIA - Motor Inboard Axial	.048 In/Sec	.251 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.127 In/Sec	1.198 G-s
PIP - Pump Inboard Horz Peakvue	.723 G-s	
PIV - Pump Inboard Vertical	.110 In/Sec	.540 G-s
PIA - Pump Inboard Axial	.110 In/Sec	1.002 G-s
POH - Pump Outboard Horizontal	.122 In/Sec	2.593 G-s
POP - Pump Outboard Horz Peakvue	.928 G-s	
POV - Pump Outboard Vertical	.121 In/Sec	.428 G-s
POA - Pump Outboard Axial	.125 In/Sec	.479 G-s

ACN29A - ACN Cool Twr Pump N	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.055 In/Sec	.932 G-s
MOP - Motor Outboard Horz Peakvue	.195 G-s	
MOV - Motor Outboard Vertical	.065 In/Sec	.774 G-s
MOA - Motor Outboard Axial	.050 In/Sec	.280 G-s
MIH - Motor Inboard Horizontal	.056 In/Sec	.912 G-s
MIP - Motor Inboard Horz Peakvue	.183 G-s	
MIV - Motor Inboard Vertical	.092 In/Sec	1.332 G-s
MIA - Motor Inboard Axial	.089 In/Sec	.927 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.205 In/Sec	.401 G-s
PIP - Pump Inboard Horz Peakvue	.157 G-s	
PIV - Pump Inboard Vertical	.121 In/Sec	.176 G-s
PIA - Pump Inboard Axial	.125 In/Sec	.221 G-s

POH - Pump Outboard Horizontal	.125 In/Sec	1.796 G-s
POP - Pump Outboard Horz Peakvue	.998 G-s	
POV - Pump Outboard Vertical	.088 In/Sec	.345 G-s
POA - Pump Outboard Axial	.111 In/Sec	.393 G-s
ACN36 - ACH Neut Tank Circ Pmp	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.092 In/Sec	.366 G-s
MIP - Motor Inboard Horz Peakvue	.130 G-s	
MIV - Motor Inboard Vertical	.108 In/Sec	.112 G-s
MIA - Motor Inboard Axial	.081 In/Sec	.120 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.444 In/Sec	.159 G-s
PIP - Pump Inboard Horz Peakvue	.012 G-s	
PIV - Pump Inboard Vertical	.123 In/Sec	.138 G-s
PIA - Pump Inboard Axial	.167 In/Sec	.152 G-s
ACN12 - #1 Kettle Xfer Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.081 In/Sec	.193 G-s
MOP - Motor Outboard Horz Peakvue	.0076 G-s	
MOV - Motor Outboard Vertical	.089 In/Sec	.084 G-s
MOA - Motor Outboard Axial	.073 In/Sec	.036 G-s
MIH - Motor Inboard Horizontal	.072 In/Sec	.207 G-s
MIP - Motor Inboard Horz Peakvue	.045 G-s	
MIV - Motor Inboard Vertical	.070 In/Sec	.196 G-s
MIA - Motor Inboard Axial	.055 In/Sec	.143 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.048 In/Sec	.086 G-s
PIP - Pump Inboard Horz Peakvue	.0059 G-s	
PIV - Pump Inboard Vertical	.217 In/Sec	.131 G-s
PIA - Pump Inboard Axial	.043 In/Sec	.140 G-s
ACN10 - #1 Kettle Circ Pmp	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.025 In/Sec	.365 G-s
MOP - Motor Outboard Horz Peakvue	.090 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.111 G-s
MOA - Motor Outboard Axial	.040 In/Sec	.096 G-s
MIH - Motor Inboard Horizontal	.026 In/Sec	.501 G-s
MIP - Motor Inboard Horz Peakvue	.225 G-s	
MIV - Motor Inboard Vertical	.030 In/Sec	.161 G-s
MIA - Motor Inboard Axial	.023 In/Sec	.151 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.049 In/Sec	.142 G-s
PIP - Pump Inboard Horz Peakvue	.082 G-s	
PIV - Pump Inboard Vertical	.046 In/Sec	.082 G-s
PIA - Pump Inboard Axial	.037 In/Sec	.088 G-s
ACN13B - #2 Kettle Xfer Pump S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.043 In/Sec	1.461 G-s
MOP - Motor Outboard Horz Peakvue	.155 G-s	
MOV - Motor Outboard Vertical	.059 In/Sec	.471 G-s
MOA - Motor Outboard Axial	.040 In/Sec	.427 G-s
MIH - Motor Inboard Horizontal	.088 In/Sec	3.420 G-s
MIP - Motor Inboard Horz Peakvue	.635 G-s	

MIV - Motor Inboard Vertical	.064 In/Sec	.717 G-s
MIA - Motor Inboard Axial	.061 In/Sec	.956 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.055 In/Sec	.723 G-s
PIP - Pump Inboard Horz Peakvue	.209 G-s	
PIV - Pump Inboard Vertical	.048 In/Sec	.161 G-s
PIA - Pump Inboard Axial	.064 In/Sec	.194 G-s
ACN11 - #2 Kettle Circ Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.023 In/Sec	.491 G-s
MOP - Motor Outboard Horz Peakvue	.273 G-s	
MOV - Motor Outboard Vertical	.041 In/Sec	.104 G-s
MOA - Motor Outboard Axial	.041 In/Sec	.119 G-s
MIH - Motor Inboard Horizontal	.024 In/Sec	.560 G-s
MIP - Motor Inboard Horz Peakvue	.287 G-s	
MIV - Motor Inboard Vertical	.048 In/Sec	.165 G-s
MIA - Motor Inboard Axial	.035 In/Sec	.140 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.045 In/Sec	.267 G-s
PIP - Pump Inboard Horz Peakvue	.154 G-s	
PIV - Pump Inboard Vertical	.086 In/Sec	.200 G-s
PIA - Pump Inboard Axial	.030 In/Sec	.198 G-s
* POV - Pump Outboard Vertical	.104 In/Sec	.200 G-s
* POA - Pump Outboard Axial	.038 In/Sec	.253 G-s
ACN09 - ACH Flash Tank Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.089 In/Sec	.758 G-s
MOP - Motor Outboard Horz Peakvue	.075 G-s	
MOV - Motor Outboard Vertical	.091 In/Sec	.271 G-s
MOA - Motor Outboard Axial	.070 In/Sec	.229 G-s
* MIV - Motor Inboard Vertical	.068 In/Sec	.831 G-s
* MIA - Motor Inboard Axial	.108 In/Sec	1.139 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.043 In/Sec	.178 G-s
PIP - Pump Inboard Horz Peakvue	.032 G-s	
PIV - Pump Inboard Vertical	.053 In/Sec	.276 G-s
PIA - Pump Inboard Axial	.045 In/Sec	.278 G-s
ACN16 - ACH Scrub Circ PumpN	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.093 In/Sec	.185 G-s
MOP - Motor Outboard Horz Peakvue	.056 G-s	
MOV - Motor Outboard Vertical	.031 In/Sec	.141 G-s
MOA - Motor Outboard Axial	.083 In/Sec	.087 G-s
MIH - Motor Inboard Horizontal	.069 In/Sec	.231 G-s
MIP - Motor Inboard Horz Peakvue	.150 G-s	
MIV - Motor Inboard Vertical	.085 In/Sec	.112 G-s
MIA - Motor Inboard Axial	.074 In/Sec	.110 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.115 In/Sec	.347 G-s
PIP - Pump Inboard Horz Peakvue	.207 G-s	
PIV - Pump Inboard Vertical	.063 In/Sec	.164 G-s
PIA - Pump Inboard Axial	.061 In/Sec	.172 G-s
* POV - Pump Outboard Vertical	.132 In/Sec	.412 G-s
* POA - Pump Outboard Axial	.202 In/Sec	.396 G-s

ACN30	- ACH Scrubber Xfer Pmp	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.052 In/Sec	.333 G-s
MOP - Motor Outboard Horz Peakvue		.191 G-s	
MOV - Motor Outboard Vertical		.070 In/Sec	.225 G-s
MOA - Motor Outboard Axial		.098 In/Sec	.080 G-s
MIH - Motor Inboard Horizontal		.062 In/Sec	.353 G-s
MIP - Motor Inboard Horz Peakvue		.213 G-s	
MIV - Motor Inboard Vertical		.088 In/Sec	.114 G-s
MIA - Motor Inboard Axial		.082 In/Sec	.154 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.049 In/Sec	.101 G-s
PIP - Pump Inboard Horz Peakvue		.086 G-s	
PIV - Pump Inboard Vertical		.065 In/Sec	.090 G-s
PIA - Pump Inboard Axial		.038 In/Sec	.054 G-s
ACN05B	- Topp Column Xfer Pmp E	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.077 In/Sec	.286 G-s
MOP - Motor Outboard Horz Peakvue		.082 G-s	
MOV - Motor Outboard Vertical		.076 In/Sec	.167 G-s
MOA - Motor Outboard Axial		.041 In/Sec	.073 G-s
MIH - Motor Inboard Horizontal		.068 In/Sec	1.282 G-s
MIP - Motor Inboard Horz Peakvue		.164 G-s	
MIV - Motor Inboard Vertical		.047 In/Sec	.142 G-s
MIA - Motor Inboard Axial		.046 In/Sec	.107 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.111 In/Sec	1.309 G-s
PIP - Pump Inboard Horz Peakvue		.580 G-s	
PIV - Pump Inboard Vertical		.153 In/Sec	.564 G-s
PIA - Pump Inboard Axial		.078 In/Sec	.520 G-s
ACN04	- Topping Col Circ Pump	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.034 In/Sec	.203 G-s
MOP - Motor Outboard Horz Peakvue		.118 G-s	
MOV - Motor Outboard Vertical		.040 In/Sec	.068 G-s
MOA - Motor Outboard Axial		.040 In/Sec	.047 G-s
MIH - Motor Inboard Horizontal		.026 In/Sec	.446 G-s
MIP - Motor Inboard Horz Peakvue		.316 G-s	
MIV - Motor Inboard Vertical		.030 In/Sec	.091 G-s
MIA - Motor Inboard Axial		.029 In/Sec	.080 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.128 In/Sec	.472 G-s
PIP - Pump Inboard Horz Peakvue		.260 G-s	
PIV - Pump Inboard Vertical		.067 In/Sec	.283 G-s
PIA - Pump Inboard Axial		.064 In/Sec	.304 G-s
POH - Pump Outboard Horizontal		.059 In/Sec	.486 G-s
POP - Pump Outboard Horz Peakvue		.370 G-s	
POV - Pump Outboard Vertical		.075 In/Sec	.161 G-s
POA - Pump Outboard Axial		.079 In/Sec	.138 G-s
MON38CNM	- LBS Tails Pump N	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.048 In/Sec	.339 G-s
MOP - Motor Outboard Horz Peakvue		.050 G-s	

MOV - Motor Outboard Vertical	.091 In/Sec	.086 G-s
MOA - Motor Outboard Axial	.061 In/Sec	.129 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	.447 G-s
MIP - Motor Inboard Horz Peakvue	.118 G-s	
MIV - Motor Inboard Vertical	.072 In/Sec	.108 G-s
MIA - Motor Inboard Axial	.052 In/Sec	.090 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.091 In/Sec	1.080 G-s
PIP - Pump Inboard Horz Peakvue	.216 G-s	
PIV - Pump Inboard Vertical	.068 In/Sec	.367 G-s
PIA - Pump Inboard Axial	.065 In/Sec	.416 G-s
MON38CSM - LBS Tails Pump S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.043 In/Sec	.244 G-s
MOP - Motor Outboard Horz Peakvue	.031 G-s	
MOV - Motor Outboard Vertical	.033 In/Sec	.071 G-s
MOA - Motor Outboard Axial	.050 In/Sec	.138 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	.618 G-s
MIP - Motor Inboard Horz Peakvue	.060 G-s	
MIV - Motor Inboard Vertical	.060 In/Sec	.070 G-s
MIA - Motor Inboard Axial	.047 In/Sec	.100 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.089 In/Sec	.322 G-s
PIP - Pump Inboard Horz Peakvue	.088 G-s	
PIV - Pump Inboard Vertical	.067 In/Sec	.216 G-s
PIA - Pump Inboard Axial	.055 In/Sec	.147 G-s
MON84 - WCM Tails Pump S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.077 In/Sec	1.157 G-s
MOP - Motor Outboard Horz Peakvue	.034 G-s	
MOV - Motor Outboard Vertical	.055 In/Sec	.179 G-s
MOA - Motor Outboard Axial	.185 In/Sec	.163 G-s
MIH - Motor Inboard Horizontal	.068 In/Sec	.772 G-s
MIP - Motor Inboard Horz Peakvue	.214 G-s	
MIV - Motor Inboard Vertical	.092 In/Sec	.094 G-s
MIA - Motor Inboard Axial	.173 In/Sec	.066 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.157 In/Sec	.311 G-s
PIP - Pump Inboard Horz Peakvue	.114 G-s	
PIV - Pump Inboard Vertical	.190 In/Sec	.253 G-s
PIA - Pump Inboard Axial	.196 In/Sec	.267 G-s
MON132 - Decanter Feed Pmp Spare	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.142 In/Sec	.217 G-s
MOP - Motor Outboard Horz Peakvue	.012 G-s	
MOV - Motor Outboard Vertical	.287 In/Sec	.039 G-s
MOA - Motor Outboard Axial	.109 In/Sec	.057 G-s
MIH - Motor Inboard Horizontal	.209 In/Sec	.198 G-s
MIP - Motor Inboard Horz Peakvue	.031 G-s	
MIV - Motor Inboard Vertical	.448 In/Sec	.059 G-s
MIA - Motor Inboard Axial	.068 In/Sec	.065 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.187 In/Sec	.285 G-s
PIP - Pump Inboard Horz Peakvue	.045 G-s	

PIV - Pump Inboard Vertical	.465 In/Sec	.102 G-s
PIA - Pump Inboard Axial	.118 In/Sec	.203 G-s

MON38A	- LBS Reflux Pmp S	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.042 In/Sec	.594 G-s	
MOP - Motor Outboard Horz Peakvue	.209 G-s		
MOV - Motor Outboard Vertical	.028 In/Sec	.255 G-s	
MOA - Motor Outboard Axial	.035 In/Sec	.142 G-s	
MIH - Motor Inboard Horizontal	.039 In/Sec	.472 G-s	
MIP - Motor Inboard Horz Peakvue	.073 G-s		
MIV - Motor Inboard Vertical	.051 In/Sec	.157 G-s	
MIA - Motor Inboard Axial	.046 In/Sec	.100 G-s	
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.056 In/Sec	.751 G-s	
PIP - Pump Inboard Horz Peakvue	.086 G-s		
PIV - Pump Inboard Vertical	.056 In/Sec	.332 G-s	
PIA - Pump Inboard Axial	.048 In/Sec	.217 G-s	

MON38B	- LBS Reflux Pmp N	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.059 In/Sec	.599 G-s	
MOP - Motor Outboard Horz Peakvue	.194 G-s		
MOV - Motor Outboard Vertical	.089 In/Sec	.140 G-s	
MOA - Motor Outboard Axial	.036 In/Sec	.136 G-s	
MIH - Motor Inboard Horizontal	.051 In/Sec	.441 G-s	
MIP - Motor Inboard Horz Peakvue	.117 G-s		
MIV - Motor Inboard Vertical	.069 In/Sec	.059 G-s	
MIA - Motor Inboard Axial	.039 In/Sec	.074 G-s	
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.097 In/Sec	.619 G-s	
PIP - Pump Inboard Horz Peakvue	.128 G-s		
PIV - Pump Inboard Vertical	.097 In/Sec	.326 G-s	
PIA - Pump Inboard Axial	.152 In/Sec	.273 G-s	

MON118	- Tempered H2O Pmp	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.088 In/Sec	.013 G-s	
MOP - Motor Outboard Horz Peakvue	.0044 G-s		
MOV - Motor Outboard Vertical	.050 In/Sec	.011 G-s	
MOA - Motor Outboard Axial	.070 In/Sec	.0030 G-s	
MIH - Motor Inboard Horizontal	.093 In/Sec	.342 G-s	
MIP - Motor Inboard Horz Peakvue	.214 G-s		
MIV - Motor Inboard Vertical	.049 In/Sec	.108 G-s	
MIA - Motor Inboard Axial	.080 In/Sec	.097 G-s	
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.094 In/Sec	.033 G-s	
PIP - Pump Inboard Horz Peakvue	.026 G-s		
PIV - Pump Inboard Vertical	.026 In/Sec	.026 G-s	
PIA - Pump Inboard Axial	.054 In/Sec	.037 G-s	
POH - Pump Outboard Horizontal	.052 In/Sec	.039 G-s	
POP - Pump Outboard Horz Peakvue	.018 G-s		
POV - Pump Outboard Vertical	.022 In/Sec	.035 G-s	
POA - Pump Outboard Axial	.045 In/Sec	.016 G-s	

MON55NM	- HUT Pump N	(14-May-20)	
		OVERALL LEVEL	1K-20kHz

MOH - Motor Outboard Horizontal	.057 In/Sec	.304 G-s
MOP - Motor Outboard Horz Peakvue	.170 G-s	
MOV - Motor Outboard Vertical	.067 In/Sec	.203 G-s
MOA - Motor Outboard Axial	.060 In/Sec	.182 G-s
MIH - Motor Inboard Horizontal	.057 In/Sec	.487 G-s
MIP - Motor Inboard Horz Peakvue	.364 G-s	
MIV - Motor Inboard Vertical	.082 In/Sec	.213 G-s
MIA - Motor Inboard Axial	.048 In/Sec	.280 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.383 In/Sec	.413 G-s
PIP - Pump Inboard Horz Peakvue	.248 G-s	
PIV - Pump Inboard Vertical	.171 In/Sec	.148 G-s
PIA - Pump Inboard Axial	.168 In/Sec	.121 G-s
POH - Pump Outboard Horizontal	.120 In/Sec	.459 G-s
POP - Pump Outboard Horz Peakvue	.268 G-s	
POV - Pump Outboard Vertical	.144 In/Sec	.093 G-s
POA - Pump Outboard Axial	.143 In/Sec	.101 G-s

MON55MM - HUT Pump Mid

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.051 In/Sec	1.592 G-s
MOP - Motor Outboard Horz Peakvue	.904 G-s	
MOV - Motor Outboard Vertical	.071 In/Sec	.709 G-s
MOA - Motor Outboard Axial	.070 In/Sec	.546 G-s
MIH - Motor Inboard Horizontal	.050 In/Sec	3.289 G-s
MIP - Motor Inboard Horz Peakvue	1.450 G-s	
MIV - Motor Inboard Vertical	.078 In/Sec	.707 G-s
MIA - Motor Inboard Axial	.071 In/Sec	.731 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.278 In/Sec	.247 G-s
PIP - Pump Inboard Horz Peakvue	.153 G-s	
PIV - Pump Inboard Vertical	.126 In/Sec	.167 G-s
PIA - Pump Inboard Axial	.159 In/Sec	.132 G-s
POH - Pump Outboard Horizontal	.222 In/Sec	.537 G-s
POP - Pump Outboard Horz Peakvue	.257 G-s	
POV - Pump Outboard Vertical	.129 In/Sec	.206 G-s
POA - Pump Outboard Axial	.148 In/Sec	.227 G-s

MON67SM - PTZ Xfer Pump S

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.118 In/Sec	1.125 G-s
MOP - Motor Outboard Horz Peakvue	.0031 G-s	
MOV - Motor Outboard Vertical	.107 In/Sec	.289 G-s
MOA - Motor Outboard Axial	.095 In/Sec	.122 G-s
MIH - Motor Inboard Horizontal	.094 In/Sec	.316 G-s
MIP - Motor Inboard Horz Peakvue	.027 G-s	
MIV - Motor Inboard Vertical	.062 In/Sec	.064 G-s
MIA - Motor Inboard Axial	.041 In/Sec	.066 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.038 In/Sec	.384 G-s
PIP - Pump Inboard Horz Peakvue	.039 G-s	
PIV - Pump Inboard Vertical	.050 In/Sec	.442 G-s
PIA - Pump Inboard Axial	.049 In/Sec	.375 G-s

MON43A - Amide Reactor Circ Pmp #1N

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.064 In/Sec	.163 G-s

MOP - Motor Outboard Horz Peakvue	.018 G-s	
MOV - Motor Outboard Vertical	.071 In/Sec	.085 G-s
MOA - Motor Outboard Axial	.130 In/Sec	.041 G-s
MIH - Motor Inboard Horizontal	.083 In/Sec	.296 G-s
MIP - Motor Inboard Horz Peakvue	.022 G-s	
MIV - Motor Inboard Vertical	.079 In/Sec	.107 G-s
MIA - Motor Inboard Axial	.120 In/Sec	.099 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.197 In/Sec	.431 G-s
PIP - Pump Inboard Horz Peakvue	.219 G-s	
PIV - Pump Inboard Vertical	.157 In/Sec	.192 G-s
PIA - Pump Inboard Axial	.155 In/Sec	.181 G-s
MON43B - Amide Reactor Circ Pmp #2S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.099 In/Sec	.122 G-s
MOP - Motor Outboard Horz Peakvue	.0066 G-s	
MOV - Motor Outboard Vertical	.095 In/Sec	.036 G-s
MOA - Motor Outboard Axial	.085 In/Sec	.043 G-s
MIH - Motor Inboard Horizontal	.085 In/Sec	.031 G-s
MIP - Motor Inboard Horz Peakvue	.0055 G-s	
MIV - Motor Inboard Vertical	.137 In/Sec	.0093 G-s
MIA - Motor Inboard Axial	.085 In/Sec	.0056 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.247 In/Sec	.296 G-s
PIP - Pump Inboard Horz Peakvue	.157 G-s	
PIV - Pump Inboard Vertical	.178 In/Sec	.275 G-s
PIA - Pump Inboard Axial	.213 In/Sec	.245 G-s
MON65 - Amide Reactor Circ Primary	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.156 In/Sec	.302 G-s
MOP - Motor Outboard Horz Peakvue	.170 G-s	
MOV - Motor Outboard Vertical	.360 In/Sec	.120 G-s
MOA - Motor Outboard Axial	.124 In/Sec	.081 G-s
MIH - Motor Inboard Horizontal	.152 In/Sec	.525 G-s
MIP - Motor Inboard Horz Peakvue	.392 G-s	
MIV - Motor Inboard Vertical	.258 In/Sec	.102 G-s
MIA - Motor Inboard Axial	.113 In/Sec	.155 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.123 In/Sec	.211 G-s
PIP - Pump Inboard Horz Peakvue	.191 G-s	
PIV - Pump Inboard Vertical	.216 In/Sec	.092 G-s
PIA - Pump Inboard Axial	.070 In/Sec	.094 G-s
MON68A - #1 Reactor H2O Circ Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.190 In/Sec	.358 G-s
MOP - Motor Outboard Horz Peakvue	.125 G-s	
MOV - Motor Outboard Vertical	.087 In/Sec	.176 G-s
MOA - Motor Outboard Axial	.101 In/Sec	.041 G-s
MIH - Motor Inboard Horizontal	.160 In/Sec	.229 G-s
MIP - Motor Inboard Horz Peakvue	.085 G-s	
MIV - Motor Inboard Vertical	.111 In/Sec	.036 G-s
MIA - Motor Inboard Axial	.115 In/Sec	.033 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.115 In/Sec	.224 G-s

PIP - Pump Inboard Horz Peakvue	.126 G-s	
PIV - Pump Inboard Vertical	.079 In/Sec	.252 G-s
PIA - Pump Inboard Axial	.082 In/Sec	.252 G-s
MON36 - Irganox Mix/Feed Pump	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.059 In/Sec	.230 G-s
MOP - Motor Outboard Horz Peakvue	.082 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.098 G-s
MOA - Motor Outboard Axial	.042 In/Sec	.119 G-s
* MIH - Motor Inboard Horizontal	.059 In/Sec	.263 G-s
* MIP - Motor Inboard Horz Peakvue	.185 G-s	
* MIV - Motor Inboard Vertical	.050 In/Sec	.388 G-s
* MIA - Motor Inboard Axial	.053 In/Sec	.378 G-s
IIH - Input Shaft Inboard Horizontal	.049 In/Sec	
IIP - Input Shaft Inboard Horz Peakvue	.530 G-s	
IIV - Input Shaft Inboard Vertical	.051 In/Sec	
IIA - Input Shaft Inboard Axial	.059 In/Sec	
	OVERALL LEVEL	1K-20KHz
POH - Pump Outboard Horizontal	.058 In/Sec	.588 G-s
POP - Pump Outboard Horz Peakvue	.543 G-s	
POV - Pump Outboard Vertical	.098 In/Sec	1.390 G-s
POA - Pump Outboard Axial	.126 In/Sec	1.938 G-s
SAR03 - Turb Comp Main Blower	(14-May-20)	
	OVERALL LEVEL	
5 - Turbine CPL X	.197 Mils	
6 - Turbine CPL Y	.210 Mils	
7 - Turbine Gov X	.266 Mils	
8 - Turbine Gov Y	.232 Mils	
9 - Blwr IB X	.438 Mils	
10 - Blwr IB Y	.509 Mils	
11 - Blwr OB X	.676 Mils	
12 - Blwr OB Y	.811 Mils	
15 - Blwr HSG IB	.014 Mils	
16 - Blwer HSG OB	.014 Mils	
ACN17DP - DP Comp	(14-May-20)	
	OVERALL LEVEL	
21 - ACH Motor CPL	.031 Mils	
22 - ACH GB CPL	.151 Mils	
27 - ACH CMP MTR	.014 Mils	
23 - ACH CMP CPL	.072 Mils	
24 - ACH CMP OB	.038 Mils	
ACN28ADP - Cooling Twr Fan W	(14-May-20)	
	OVERALL LEVEL	
28 - CT Fan 1 W	.226 Mils	
ACN28BDP - Cooling Twr Fan E	(14-May-20)	
	OVERALL LEVEL	
26 - CT Fan 2 E	.289 Mils	
SAR55A - Neutralization Pump N	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.038 In/Sec	.658 G-s
MOP - Motor Outboard Horz Peakvue	.283 G-s	

MOV - Motor Outboard Vertical	.072 In/Sec	.165 G-s
MOA - Motor Outboard Axial	.081 In/Sec	.161 G-s
MIH - Motor Inboard Horizontal	.091 In/Sec	3.770 G-s
MIP - Motor Inboard Horz Peakvue	3.215 G-s	
MIV - Motor Inboard Vertical	.078 In/Sec	.411 G-s
MIA - Motor Inboard Axial	.084 In/Sec	.442 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.061 In/Sec	.312 G-s
PIP - Pump Inboard Horz Peakvue	.060 G-s	
PIV - Pump Inboard Vertical	.038 In/Sec	.149 G-s
PIA - Pump Inboard Axial	.039 In/Sec	.242 G-s
SAR59C - Scrub Twr Circ Pmp E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.087 In/Sec	.164 G-s
MOP - Motor Outboard Horz Peakvue	.074 G-s	
MOV - Motor Outboard Vertical	.065 In/Sec	.061 G-s
MOA - Motor Outboard Axial	.156 In/Sec	.034 G-s
MIH - Motor Inboard Horizontal	.076 In/Sec	.488 G-s
MIP - Motor Inboard Horz Peakvue	.215 G-s	
MIV - Motor Inboard Vertical	.027 In/Sec	.101 G-s
MIA - Motor Inboard Axial	.033 In/Sec	.060 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.080 In/Sec	.569 G-s
PIP - Pump Inboard Horz Peakvue	.319 G-s	
PIV - Pump Inboard Vertical	.042 In/Sec	.248 G-s
PIA - Pump Inboard Axial	.053 In/Sec	.356 G-s
SAR59B - Scrub Twr Circ Pmp M	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.038 In/Sec	.488 G-s
MOP - Motor Outboard Horz Peakvue	.220 G-s	
MOV - Motor Outboard Vertical	.040 In/Sec	.214 G-s
MOA - Motor Outboard Axial	.030 In/Sec	.104 G-s
MIH - Motor Inboard Horizontal	.035 In/Sec	.738 G-s
MIP - Motor Inboard Horz Peakvue	.676 G-s	
MIV - Motor Inboard Vertical	.037 In/Sec	.402 G-s
MIA - Motor Inboard Axial	.037 In/Sec	.444 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.131 In/Sec	.678 G-s
PIP - Pump Inboard Horz Peakvue	.388 G-s	
PIV - Pump Inboard Vertical	.063 In/Sec	.461 G-s
PIA - Pump Inboard Axial	.075 In/Sec	.472 G-s
SAR59A - Scrub Twr Circ Pmp W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.023 In/Sec	.521 G-s
MOP - Motor Outboard Horz Peakvue	.299 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.150 G-s
MOA - Motor Outboard Axial	.027 In/Sec	.191 G-s
MIH - Motor Inboard Horizontal	.024 In/Sec	.403 G-s
MIP - Motor Inboard Horz Peakvue	.199 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.197 G-s
MIA - Motor Inboard Axial	.030 In/Sec	.196 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.092 In/Sec	.698 G-s
PIP - Pump Inboard Horz Peakvue	.431 G-s	

PIV - Pump Inboard Vertical	.053 In/Sec	.370 G-s
PIA - Pump Inboard Axial	.079 In/Sec	.243 G-s

SAR39C - Boiler Feed H2O Pmp NE

(09-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.240 In/Sec	.196 G-s
MOP - Motor Outboard Horz Peakvue	.044 G-s	
MOV - Motor Outboard Vertical	.153 In/Sec	.083 G-s
MOA - Motor Outboard Axial	.078 In/Sec	.086 G-s
MIH - Motor Inboard Horizontal	.196 In/Sec	.758 G-s
MIP - Motor Inboard Horz Peakvue	.195 G-s	
MIV - Motor Inboard Vertical	.121 In/Sec	.261 G-s
MIA - Motor Inboard Axial	.079 In/Sec	.132 G-s

OVERALL LEVEL

1K-20KHz

PIH - Pump Inboard Horizontal	.156 In/Sec	.332 G-s
PIP - Pump Inboard Horz Peakvue	.012 G-s	
PIV - Pump Inboard Vertical	.096 In/Sec	.091 G-s
PIA - Pump Inboard Axial	.085 In/Sec	.077 G-s
POH - Pump Outboard Horizontal	.217 In/Sec	1.014 G-s
POP - Pump Outboard Horz Peakvue	.142 G-s	
POV - Pump Outboard Vertical	.059 In/Sec	.517 G-s
POA - Pump Outboard Axial	.090 In/Sec	.300 G-s

SAR39D - Boiler Feed H2O Pmp SE

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.046 In/Sec	.304 G-s
MOP - Motor Outboard Horz Peakvue	.024 G-s	
MOV - Motor Outboard Vertical	.035 In/Sec	.097 G-s
MOA - Motor Outboard Axial	.073 In/Sec	.078 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	.531 G-s
MIP - Motor Inboard Horz Peakvue	.058 G-s	
MIV - Motor Inboard Vertical	.059 In/Sec	.199 G-s
MIA - Motor Inboard Axial	.073 In/Sec	.109 G-s

OVERALL LEVEL

1K-20KHz

PIH - Pump Inboard Horizontal	.088 In/Sec	.444 G-s
PIP - Pump Inboard Horz Peakvue	.020 G-s	
PIV - Pump Inboard Vertical	.089 In/Sec	.094 G-s
PIA - Pump Inboard Axial	.061 In/Sec	.098 G-s
POH - Pump Outboard Horizontal	.080 In/Sec	.274 G-s
POP - Pump Outboard Horz Peakvue	.0078 G-s	
POV - Pump Outboard Vertical	.053 In/Sec	.058 G-s
POA - Pump Outboard Axial	.040 In/Sec	.123 G-s

SAR39B - Boiler Feed H2O Pmp SW

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.030 In/Sec	.291 G-s
MOP - Motor Outboard Horz Peakvue	.021 G-s	
MOV - Motor Outboard Vertical	.053 In/Sec	.191 G-s
MOA - Motor Outboard Axial	.026 In/Sec	.182 G-s
MIH - Motor Inboard Horizontal	.028 In/Sec	.294 G-s
MIP - Motor Inboard Horz Peakvue	.023 G-s	
MIV - Motor Inboard Vertical	.043 In/Sec	.175 G-s
MIA - Motor Inboard Axial	.025 In/Sec	.267 G-s

OVERALL LEVEL

1K-20KHz

PIH - Pump Inboard Horizontal	.061 In/Sec	.320 G-s
PIP - Pump Inboard Horz Peakvue	.148 G-s	
PIV - Pump Inboard Vertical	.067 In/Sec	.321 G-s

PIA - Pump Inboard Axial	.076 In/Sec	.261 G-s
POH - Pump Outboard Horizontal	.037 In/Sec	.396 G-s
POP - Pump Outboard Horz Peakvue	.219 G-s	
POV - Pump Outboard Vertical	.055 In/Sec	.238 G-s
POA - Pump Outboard Axial	.081 In/Sec	.135 G-s

SAR39A - Boiler Feed H2O Pmp NW

(24-Apr-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.203 In/Sec	.431 G-s
MOP - Motor Outboard Horz Peakvue	.028 G-s	
MOV - Motor Outboard Vertical	.101 In/Sec	.322 G-s
MOA - Motor Outboard Axial	.350 In/Sec	.086 G-s
MIH - Motor Inboard Horizontal	.217 In/Sec	1.215 G-s
MIP - Motor Inboard Horz Peakvue	.246 G-s	
MIV - Motor Inboard Vertical	.090 In/Sec	.411 G-s
MIA - Motor Inboard Axial	.185 In/Sec	.625 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.147 In/Sec	.502 G-s
PIP - Pump Inboard Horz Peakvue	.056 G-s	
PIV - Pump Inboard Vertical	.119 In/Sec	.306 G-s
PIA - Pump Inboard Axial	.089 In/Sec	.260 G-s
POH - Pump Outboard Horizontal	.225 In/Sec	.991 G-s
POP - Pump Outboard Horz Peakvue	.173 G-s	
POV - Pump Outboard Vertical	.102 In/Sec	.311 G-s
POA - Pump Outboard Axial	.088 In/Sec	.310 G-s

SAR54C - Weak Acid Xfer Pump S

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.073 In/Sec	.103 G-s
MOP - Motor Outboard Horz Peakvue	.016 G-s	
MOV - Motor Outboard Vertical	.088 In/Sec	.027 G-s
MOA - Motor Outboard Axial	.043 In/Sec	.028 G-s
MIH - Motor Inboard Horizontal	.067 In/Sec	.232 G-s
MIP - Motor Inboard Horz Peakvue	.122 G-s	
MIV - Motor Inboard Vertical	.050 In/Sec	.042 G-s
MIA - Motor Inboard Axial	.068 In/Sec	.049 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.098 In/Sec	.235 G-s
PIP - Pump Inboard Horz Peakvue	.0031 G-s	
PIV - Pump Inboard Vertical	.058 In/Sec	.099 G-s
PIA - Pump Inboard Axial	.076 In/Sec	.137 G-s

SAR54B - Weak Acid Xfer Pump N

(14-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.079 In/Sec	.512 G-s
MOP - Motor Outboard Horz Peakvue	.043 G-s	
MOV - Motor Outboard Vertical	.077 In/Sec	.102 G-s
MOA - Motor Outboard Axial	.051 In/Sec	.238 G-s
MIH - Motor Inboard Horizontal	.077 In/Sec	.549 G-s
MIP - Motor Inboard Horz Peakvue	.024 G-s	
MIV - Motor Inboard Vertical	.095 In/Sec	.135 G-s
MIA - Motor Inboard Axial	.111 In/Sec	.118 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.077 In/Sec	.598 G-s
PIP - Pump Inboard Horz Peakvue	.077 G-s	
PIV - Pump Inboard Vertical	.056 In/Sec	.341 G-s
PIA - Pump Inboard Axial	.067 In/Sec	.367 G-s

SAR50A	- Drying Tower Circ Pump W	(15-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W		.313 In/Sec	.358 G-s
MOP - Motor Outboard Horz Peakvue		.094 G-s	
MOV - Motor Outboard Vertical N-S		.161 In/Sec	.293 G-s
MOA - Motor Outboard Axial		.285 In/Sec	.073 G-s
MIH - Motor Inboard Horizontal E-W		.166 In/Sec	.843 G-s
MIP - Motor Inboard Horz Peakvue		.210 G-s	
MIV - Motor Inboard Vertical N-S		.148 In/Sec	.558 G-s
MIA - Motor Inboard Axial		.191 In/Sec	.122 G-s
		OVERALL LEVEL	1K-20KHz
* PIV - Pump Inboard Vertical N-S		.129 In/Sec	.0021 G-s
		OVERALL LEVEL	1K-20kHz
* PIA - Pump Inboard Axial		.783 In/Sec	.0024 G-s
 SAR50B	 - Drying Tower Circ Pump E	 (14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.123 In/Sec	1.110 G-s
MOP - Motor Outboard Horz Peakvue		.454 G-s	
MOV - Motor Outboard Vertical		.169 In/Sec	.222 G-s
MOA - Motor Outboard Axial		.352 In/Sec	.204 G-s
MIH - Motor Inboard Horizontal		.096 In/Sec	.547 G-s
MIP - Motor Inboard Horz Peakvue		.263 G-s	
MIV - Motor Inboard Vertical		.114 In/Sec	.163 G-s
MIA - Motor Inboard Axial		.115 In/Sec	.131 G-s
		OVERALL LEVEL	1K-20KHz
* POV - Pump Outboard Vertical		.108 In/Sec	.283 G-s
* POA - Pump Outboard Axial		.192 In/Sec	.208 G-s
 SAR38	 - Drying Tower Pumpout	 (15-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.012 In/Sec	.0030 G-s
MOV - Motor Outboard Vertical		.012 In/Sec	.0025 G-s
MOA - Motor Outboard Axial		.016 In/Sec	.0018 G-s
MIH - Motor Inboard Horizontal		.0085 In/Sec	.0046 G-s
MIV - Motor Inboard Vertical		.011 In/Sec	.0028 G-s
MIA - Motor Inboard Axial		.014 In/Sec	.0019 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.0084 In/Sec	.0013 G-s
PIV - Pump Inboard Vertical		.0085 In/Sec	.0024 G-s
PIA - Pump Inboard Axial		.013 In/Sec	.0017 G-s
 SAR66E	 - Vertical Cool Twr Pump #5	 (14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W		.176 In/Sec	.169 G-s
MOP - Motor Outboard Horz Peakvue		.083 G-s	
MOV - Motor Outboard Vertical N-S		.350 In/Sec	.630 G-s
MOA - Motor Outboard Axial		.475 In/Sec	.657 G-s
MIH - Motor Inboard Horizontal E-W		.047 In/Sec	.462 G-s
MIP - Motor Inboard Horz Peakvue		.184 G-s	
MIV - Motor Inboard Vertical N-S		.147 In/Sec	.607 G-s
MIA - Motor Inboard Axial		.256 In/Sec	.505 G-s
 SAR66D	 - Vertical Cool Twr Pump #4	 (14-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.081 In/Sec	.093 G-s

MOP - Motor Outboard Horz Peakvue	.050 G-s	
MOV - Motor Outboard Vertical	.101 In/Sec	.067 G-s
MOA - Motor Outboard Axial	.170 In/Sec	.116 G-s
MIH - Motor Inboard Horizontal	.063 In/Sec	.071 G-s
MIP - Motor Inboard Horz Peakvue	.038 G-s	
MIV - Motor Inboard Vertical	.104 In/Sec	.048 G-s
MIA - Motor Inboard Axial	.047 In/Sec	.077 G-s

SAR66C - Vertical Cool Twr Pump #3	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.425 In/Sec	.070 G-s
MOP - Motor Outboard Horz Peakvue	.039 G-s	
MOV - Motor Outboard Vertical	.126 In/Sec	.035 G-s
MOA - Motor Outboard Vertical	.232 In/Sec	.029 G-s
MIH - Motor Inboard Horizontal	.185 In/Sec	.063 G-s
MIP - Motor Inboard Horz Peakvue	.035 G-s	
MIV - Motor Inboard Vertical	.125 In/Sec	.047 G-s
MIA - Motor Inboard Axial	.086 In/Sec	.060 G-s

SAR66B - Vertical Cool Twr Pump #2	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.243 In/Sec	.132 G-s
MOP - Motor Outboard Horz Peakvue	.061 G-s	
MOV - Motor Outboard Vertical	.148 In/Sec	.089 G-s
MOA - Motor Outboard Axial	.409 In/Sec	.080 G-s
MIH - Motor Inboard Horizontal	.122 In/Sec	.225 G-s
MIP - Motor Inboard Horz Peakvue	.123 G-s	
MIV - Motor Inboard Vertical	.177 In/Sec	.131 G-s
MIA - Motor Inboard Axial	.165 In/Sec	.167 G-s

SAR78A - Cooling Tower Fan #1	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.209 In/Sec	.405 G-s
MOP - Motor Outboard Horz Peakvue	.187 G-s	
MOV - Motor Outboard Vertical	.419 In/Sec	.257 G-s
MOA - Motor Outboard Axial	.144 In/Sec	.304 G-s
MIH - Motor Inboard Horizontal	.120 In/Sec	.467 G-s
MIP - Motor Inboard Horz Peakvue	.229 G-s	
MIV - Motor Inboard Vertical	.172 In/Sec	.216 G-s
MIA - Motor Inboard Axial	.152 In/Sec	.212 G-s

SAR78B - Cooling Tower Fan #2	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	.511 G-s
MOP - Motor Outboard Horz Peakvue	.137 G-s	
MOV - Motor Outboard Vertical	.071 In/Sec	.168 G-s
MOA - Motor Outboard Axial	.181 In/Sec	.324 G-s
MIH - Motor Inboard Horizontal	.097 In/Sec	.270 G-s
MIP - Motor Inboard Horz Peakvue	.098 G-s	
MIV - Motor Inboard Vertical	.144 In/Sec	.228 G-s
MIA - Motor Inboard Axial	.180 In/Sec	.205 G-s

SAR78C - Cooling Tower Fan #3	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.080 In/Sec	1.298 G-s
MOP - Motor Outboard Horz Peakvue	.850 G-s	
MOV - Motor Outboard Vertical	.067 In/Sec	.133 G-s

MOA - Motor Outboard Axial	.147 In/Sec	.156 G-s
MIH - Motor Inboard Horizontal	.074 In/Sec	1.049 G-s
MIP - Motor Inboard Horz Peakvue	.433 G-s	
MIV - Motor Inboard Vertical	.126 In/Sec	.614 G-s
MIA - Motor Inboard Axial	.185 In/Sec	.752 G-s

SAR78D - Cooling Tower Fan #4

(15-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.123 In/Sec	.454 G-s
MOP - Motor Outboard Horz Peakvue	.189 G-s	
MOV - Motor Outboard Vertical	.249 In/Sec	.304 G-s
MOA - Motor Outboard Axial	.238 In/Sec	.240 G-s
MIH - Motor Inboard Horizontal	.100 In/Sec	.420 G-s
MIP - Motor Inboard Horz Peakvue	.249 G-s	
MIV - Motor Inboard Vertical	.184 In/Sec	.302 G-s
MIA - Motor Inboard Axial	.163 In/Sec	.267 G-s

SAR161C - N SAR Cool Twr Fan E

(15-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.104 In/Sec	.283 G-s
MOP - Motor Outboard Horz Peakvue	.105 G-s	
MOV - Motor Outboard Vertical	.153 In/Sec	.108 G-s
MOA - Motor Outboard Axial	.222 In/Sec	.075 G-s
MIH - Motor Inboard Horizontal	.263 In/Sec	.311 G-s
MIP - Motor Inboard Horz Peakvue	.119 G-s	
MIV - Motor Inboard Vertical	.179 In/Sec	.371 G-s
MIA - Motor Inboard Axial	.213 In/Sec	.125 G-s

SAR161B - N SAR Cool Twr Fan Middle

(15-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.128 In/Sec	.801 G-s
MOP - Motor Outboard Horz Peakvue	.227 G-s	
MOV - Motor Outboard Vertical	.155 In/Sec	.564 G-s
MOA - Motor Outboard Axial	.140 In/Sec	.448 G-s
MIH - Motor Inboard Horizontal	.120 In/Sec	1.032 G-s
MIP - Motor Inboard Horz Peakvue	.286 G-s	
MIV - Motor Inboard Vertical	.136 In/Sec	.689 G-s
MIA - Motor Inboard Axial	.123 In/Sec	.756 G-s

SAR161A - N SAR Cool Twr Fan W

(15-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.146 In/Sec	.949 G-s
MOP - Motor Outboard Horz Peakvue	.478 G-s	
MOV - Motor Outboard Vertical	.152 In/Sec	.190 G-s
MOA - Motor Outboard Axial	.213 In/Sec	.144 G-s
MIH - Motor Inboard Horizontal	.289 In/Sec	1.638 G-s
MIP - Motor Inboard Horz Peakvue	1.003 G-s	
MIV - Motor Inboard Vertical	.082 In/Sec	.389 G-s
MIA - Motor Inboard Axial	.211 In/Sec	.205 G-s

SAR231B - Final Twr Circ Pump S

(15-May-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.077 In/Sec	.380 G-s
MOP - Motor Outboard Horz Peakvue	.155 G-s	
MOV - Motor Outboard Vertical	.038 In/Sec	.249 G-s
MOA - Motor Outboard Axial	.078 In/Sec	.210 G-s
MIH - Motor Inboard Horizontal	.054 In/Sec	.419 G-s

MIP - Motor Inboard Horz Peakvue	.252 G-s	
MIV - Motor Inboard Vertical	.040 In/Sec	.245 G-s
MIA - Motor Inboard Axial	.052 In/Sec	.175 G-s
SAR127 - Final Twr Pumpout Drain Pmp	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.111 In/Sec	.0006 G-s
MOV - Motor Outboard Vertical	1.125 In/Sec	.0023 G-s
MOA - Motor Outboard Axial	.210 In/Sec	.0046 G-s
SAR57B - Oleum Twr Circ Pump E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.101 In/Sec	2.366 G-s
MOP - Motor Outboard Horz Peakvue	1.338 G-s	
MOV - Motor Outboard Vertical N-S	.082 In/Sec	.510 G-s
MOA - Motor Outboard Axial	.116 In/Sec	.385 G-s
MIH - Motor Inboard Horizontal E-W	.102 In/Sec	2.930 G-s
MIP - Motor Inboard Horz Peakvue	1.552 G-s	
MIV - Motor Inboard Vertical N-S	.090 In/Sec	1.144 G-s
MIA - Motor Inboard Axial	.095 In/Sec	.971 G-s
SAR37A - Interpass Twr Circ Pump N	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.050 In/Sec	.414 G-s
MOP - Motor Outboard Horz Peakvue	.265 G-s	
MOV - Motor Outboard Vertical N-S	.052 In/Sec	.139 G-s
MOA - Motor Outboard Axial	.066 In/Sec	.125 G-s
MIH - Motor Inboard Horizontal E-W	.045 In/Sec	.485 G-s
MIP - Motor Inboard Horz Peakvue	.182 G-s	
MIV - Motor Inboard Vertical N-S	.051 In/Sec	.188 G-s
MIA - Motor Inboard Axial	.053 In/Sec	.307 G-s
SAR128 - Oleum Fume Scrub Blwr	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.060 In/Sec	.157 G-s
MIP - Motor Inboard Horz Peakvue	.051 G-s	
MIV - Motor Inboard Vertical	.042 In/Sec	.055 G-s
MIA - Motor Inboard Axial	.053 In/Sec	.054 G-s
	OVERALL LEVEL	1K-20kHz
FIH - Fan Inboard Horizontal	.078 In/Sec	.338 G-s
FIP - Fan Inboard Horz Peakvue	.066 G-s	
FIV - Fan Inboard Vertical	.030 In/Sec	.309 G-s
FIA - Fan Inboard Axial	.040 In/Sec	.199 G-s
FOH - Fan Outboard Horizontal	.101 In/Sec	.242 G-s
FOP - Fan Outboard Horz Peakvue	.076 G-s	
FOV - Fan Outboard Vertical	.076 In/Sec	.291 G-s
FOA - Fan Outboard Axial	.113 In/Sec	.355 G-s
SAR137B - Contain Pit PumpS	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.056 In/Sec	.229 G-s
MOP - Motor Outboard Horz Peakvue	.117 G-s	
MOV - Motor Outboard Vertical N-S	.090 In/Sec	.115 G-s
MOA - Motor Outboard Axial	.092 In/Sec	.134 G-s
* MIH - Motor Inboard Horizontal E-W	.050 In/Sec	.217 G-s
* MIP - Motor Inboard Horz Peakvue	.116 G-s	
* MIV - Motor Inboard Vertical N-S	.147 In/Sec	.087 G-s

* MIA - Motor Inboard Axial	.079 In/Sec	.128 G-s
SAR14 - Combustion Air Fan W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.082 In/Sec	.861 G-s
MOP - Motor Outboard Horz Peakvue	.522 G-s	
MOV - Motor Outboard Vertical	.055 In/Sec	.313 G-s
MOA - Motor Outboard Axial	.071 In/Sec	.560 G-s
MIH - Motor Inboard Horizontal	.086 In/Sec	1.411 G-s
MIP - Motor Inboard Horz Peakvue	.645 G-s	
MIV - Motor Inboard Vertical	.055 In/Sec	.493 G-s
MIA - Motor Inboard Axial	.079 In/Sec	.934 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.115 In/Sec	1.243 G-s
FIP - Fan Inboard Horz Peakvue	.142 G-s	
FIV - Fan Inboard Vertical	.056 In/Sec	.537 G-s
FIA - Fan Inboard Axial	.170 In/Sec	.157 G-s
FOH - Fan Outboard Horizontal	.094 In/Sec	1.644 G-s
FOP - Fan Outboard Horz Peakvue	.880 G-s	
FOV - Fan Outboard Vertical	.056 In/Sec	.922 G-s
FOA - Fan Outboard Axial	.065 In/Sec	.406 G-s
SAR13 - Combustion Air Fan E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.060 In/Sec	.574 G-s
MOP - Motor Outboard Horz Peakvue	.331 G-s	
MOV - Motor Outboard Vertical	.043 In/Sec	.246 G-s
MOA - Motor Outboard Axial	.132 In/Sec	.186 G-s
MIH - Motor Inboard Horizontal	.067 In/Sec	.709 G-s
MIP - Motor Inboard Horz Peakvue	.373 G-s	
MIV - Motor Inboard Vertical	.045 In/Sec	.238 G-s
MIA - Motor Inboard Axial	.057 In/Sec	.337 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.066 In/Sec	.462 G-s
FIP - Fan Inboard Horz Peakvue	.230 G-s	
FIV - Fan Inboard Vertical	.048 In/Sec	.351 G-s
FIA - Fan Inboard Axial	.053 In/Sec	.122 G-s
FOH - Fan Outboard Horizontal	.054 In/Sec	.497 G-s
FOP - Fan Outboard Horz Peakvue	.228 G-s	
FOV - Fan Outboard Vertical	.141 In/Sec	.289 G-s
FOA - Fan Outboard Axial	.111 In/Sec	.201 G-s
SAR11 - Recycle Fan W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.040 In/Sec	.478 G-s
MOP - Motor Outboard Horz Peakvue	.348 G-s	
MOV - Motor Outboard Vertical	.045 In/Sec	.146 G-s
MOA - Motor Outboard Axial	.046 In/Sec	.174 G-s
MIH - Motor Inboard Horizontal	.025 In/Sec	.518 G-s
MIP - Motor Inboard Horz Peakvue	.339 G-s	
MIV - Motor Inboard Vertical	.038 In/Sec	.193 G-s
MIA - Motor Inboard Axial	.042 In/Sec	.169 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.016 In/Sec	.056 G-s
FIP - Fan Inboard Horz Peakvue	.028 G-s	
FIV - Fan Inboard Vertical	.012 In/Sec	.018 G-s
FIA - Fan Inboard Axial	.018 In/Sec	.012 G-s

FOH - Fan Outboard Horizontal	.017 In/Sec	.032 G-s
FOP - Fan Outboard Horz Peakvue	.016 G-s	
FOV - Fan Outboard Vertical	.011 In/Sec	.0065 G-s
FOA - Fan Outboard Axial	.020 In/Sec	.013 G-s

SAR12 - Recycle Fan E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.122 In/Sec	.387 G-s
MOP - Motor Outboard Horz Peakvue	.106 G-s	
MOV - Motor Outboard Vertical	.093 In/Sec	.309 G-s
MOA - Motor Outboard Axial	.180 In/Sec	.092 G-s
MIH - Motor Inboard Horizontal	.114 In/Sec	1.304 G-s
MIP - Motor Inboard Horz Peakvue	.814 G-s	
MIV - Motor Inboard Vertical	.189 In/Sec	.687 G-s
MIA - Motor Inboard Axial	.163 In/Sec	.634 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.108 In/Sec	.229 G-s
FIP - Fan Inboard Horz Peakvue	.174 G-s	
FIV - Fan Inboard Vertical	.050 In/Sec	.149 G-s
FIA - Fan Inboard Axial	.110 In/Sec	.138 G-s
FOH - Fan Outboard Horizontal	.141 In/Sec	.241 G-s
FOP - Fan Outboard Horz Peakvue	.190 G-s	
FOV - Fan Outboard Vertical	.137 In/Sec	.122 G-s
FOA - Fan Outboard Axial	.125 In/Sec	.173 G-s

SAR15 - Process Air Fan W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.065 In/Sec	.414 G-s
MOP - Motor Outboard Horz Peakvue	.180 G-s	
MOV - Motor Outboard Vertical	.045 In/Sec	.781 G-s
MOA - Motor Outboard Axial	.049 In/Sec	.572 G-s
MIH - Motor Inboard Horizontal	.059 In/Sec	.963 G-s
MIP - Motor Inboard Horz Peakvue	.263 G-s	
MIV - Motor Inboard Vertical	.055 In/Sec	.292 G-s
MIA - Motor Inboard Axial	.051 In/Sec	.460 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.065 In/Sec	1.550 G-s
FIP - Fan Inboard Horz Peakvue	.891 G-s	
FIV - Fan Inboard Vertical	.044 In/Sec	1.025 G-s
FIA - Fan Inboard Axial	.051 In/Sec	.959 G-s
FOH - Fan Outboard Horizontal	.078 In/Sec	.904 G-s
FOP - Fan Outboard Horz Peakvue	.546 G-s	
FOV - Fan Outboard Vertical	.038 In/Sec	.685 G-s
FOA - Fan Outboard Axial	.044 In/Sec	.145 G-s

SAR10 - Process Air Fan E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.199 In/Sec	.494 G-s
MOP - Motor Outboard Horz Peakvue	.259 G-s	
MOV - Motor Outboard Vertical	.113 In/Sec	.211 G-s
MOA - Motor Outboard Axial	.116 In/Sec	.405 G-s
MIH - Motor Inboard Horizontal	.181 In/Sec	2.324 G-s
MIP - Motor Inboard Horz Peakvue	1.570 G-s	
MIV - Motor Inboard Vertical	.105 In/Sec	.565 G-s
MIA - Motor Inboard Axial	.115 In/Sec	.465 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.248 In/Sec	3.916 G-s

FIP - Fan Inboard Horz Peakvue	2.154 G-s	
FIV - Fan Inboard Vertical	.174 In/Sec	1.794 G-s
FIA - Fan Inboard Axial	.193 In/Sec	.896 G-s
FOH - Fan Outboard Horizontal	.297 In/Sec	3.875 G-s
FOP - Fan Outboard Horz Peakvue	2.154 G-s	
FOV - Fan Outboard Vertical	.099 In/Sec	1.312 G-s
FOA - Fan Outboard Axial	.218 In/Sec	.781 G-s
MON169 - A/B Booster Pump W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.048 In/Sec	.385 G-s
MOP - Motor Outboard Horz Peakvue	.148 G-s	
MOV - Motor Outboard Vertical	.045 In/Sec	.129 G-s
MOA - Motor Outboard Axial	.053 In/Sec	.075 G-s
MIH - Motor Inboard Horizontal	.046 In/Sec	.275 G-s
MIP - Motor Inboard Horz Peakvue	.142 G-s	
MIV - Motor Inboard Vertical	.037 In/Sec	.169 G-s
MIA - Motor Inboard Axial	.045 In/Sec	.259 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.073 In/Sec	.083 G-s
PIP - Pump Inboard Horz Peakvue	.062 G-s	
PIV - Pump Inboard Vertical	.034 In/Sec	.042 G-s
PIA - Pump Inboard Axial	.043 In/Sec	.031 G-s
MON73W - Skim Tub Xfer Pmp W	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.069 In/Sec	.097 G-s
MOP - Motor Outboard Horz Peakvue	.013 G-s	
MOV - Motor Outboard Vertical	.044 In/Sec	.031 G-s
MOA - Motor Outboard Axial	.053 In/Sec	.037 G-s
MIH - Motor Inboard Horizontal	.043 In/Sec	.448 G-s
MIP - Motor Inboard Horz Peakvue	.163 G-s	
MIV - Motor Inboard Vertical	.054 In/Sec	.220 G-s
MIA - Motor Inboard Axial	.063 In/Sec	.457 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.056 In/Sec	.083 G-s
PIP - Pump Inboard Horz Peakvue	.050 G-s	
PIV - Pump Inboard Vertical	.047 In/Sec	.056 G-s
PIA - Pump Inboard Axial	.050 In/Sec	.052 G-s
SAR222 - Oleum Twr Drain Pmp	(15-May-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.077 In/Sec	.505 G-s
MOP - Motor Outboard Horz Peakvue	.0050 G-s	
MOV - Motor Outboard Vertical	.081 In/Sec	.337 G-s
MOA - Motor Outboard Axial	.087 In/Sec	.673 G-s
MIH - Motor Inboard Horizontal	.061 In/Sec	.423 G-s
MIP - Motor Inboard Horz Peakvue	.019 G-s	
MIV - Motor Inboard Vertical	.080 In/Sec	.370 G-s
MIA - Motor Inboard Axial	.046 In/Sec	.235 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.239 In/Sec	3.850 G-s
PIP - Pump Inboard Horz Peakvue	.020 G-s	
PIV - Pump Inboard Vertical	.145 In/Sec	1.503 G-s
* POH - Pump Outboard Horizontal	.157 In/Sec	2.925 G-s
* POP - Pump Outboard Horz Peakvue	.018 G-s	
* POV - Pump Outboard Vertical	.150 In/Sec	2.260 G-s

SAR233	- InterpassTwr Drain Pmp1	(15-May-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.068 In/Sec	.128 G-s
MOV - Motor Outboard Vertical		.193 In/Sec	.054 G-s
MOA - Motor Outboard Axial		.137 In/Sec	.052 G-s
MIH - Motor Inboard Horizontal		.066 In/Sec	.088 G-s
MIP - Motor Inboard Horz Peakvue		.0037 G-s	
MIV - Motor Inboard Vertical		.067 In/Sec	.049 G-s
MIA - Motor Inboard Axial		.035 In/Sec	.081 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.032 In/Sec	.036 G-s
PIP - Pump Inboard Horz Peakvue		.0079 G-s	
PIV - Pump Inboard Vertical		.028 In/Sec	.049 G-s
PIA - Pump Inboard Axial		.046 In/Sec	.047 G-s
* POH - Pump Outboard Horizontal		.034 In/Sec	.181 G-s
* POP - Pump Outboard Horz Peakvue		.015 G-s	
* POV - Pump Outboard Vertical		.030 In/Sec	.202 G-s
SAR 56A	- N Oleum Storage Tank Feed	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.130 In/Sec	.146 G-s
M1P - Motor Outboard Horz Peakvue		.076 G-s	
M1V - Motor Outboard Vertical		.071 In/Sec	.087 G-s
M1A - Motor Outboard Axial		.131 In/Sec	.040 G-s
M2H - Motor Inboard Horizontal		.078 In/Sec	.323 G-s
M2P - Motor Inboard Horz Peakvue		.192 G-s	
M2V - Motor Inboard Vertical		.053 In/Sec	.067 G-s
M2A - Motor Inboard Axial		.053 In/Sec	.058 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.084 In/Sec	.087 G-s
P1P - Pump Inboard Horz Peakvue		.051 G-s	
P1V - Pump Inboard Vertical		.033 In/Sec	.048 G-s
P1A - Pump Inboard Axial		.062 In/Sec	.047 G-s
SAR 56B	- M Oleum Storage Tank Feed	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.098 In/Sec	.276 G-s
M1P - Motor Outboard Horz Peakvue		.116 G-s	
M1V - Motor Outboard Vertical		.069 In/Sec	.071 G-s
M1A - Motor Outboard Axial		.074 In/Sec	.047 G-s
M2H - Motor Inboard Horizontal		.105 In/Sec	.215 G-s
M2P - Motor Inboard Horz Peakvue		.056 G-s	
M2V - Motor Inboard Vertical		.164 In/Sec	.049 G-s
M2A - Motor Inboard Axial		.121 In/Sec	.064 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.150 In/Sec	.275 G-s
P1P - Pump Inboard Horz Peakvue		.274 G-s	
P1V - Pump Inboard Vertical		.076 In/Sec	.038 G-s
P1A - Pump Inboard Axial		.053 In/Sec	.076 G-s
SAR 56C	- S Oleum Storage Tank Feed	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.055 In/Sec	.164 G-s
M1P - Motor Outboard Horz Peakvue		.063 G-s	
M1V - Motor Outboard Vertical		.038 In/Sec	.201 G-s
M1A - Motor Outboard Axial		.041 In/Sec	.058 G-s

M2H - Motor Inboard Horizontal	.074 In/Sec	.196 G-s
M2P - Motor Inboard Horz Peakvue	.150 G-s	
M2V - Motor Inboard Vertical	.040 In/Sec	.115 G-s
M2A - Motor Inboard Axial	.053 In/Sec	.101 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.086 In/Sec	.111 G-s
P1P - Pump Inboard Horz Peakvue	.046 G-s	
P1V - Pump Inboard Vertical	.042 In/Sec	.042 G-s
P1A - Pump Inboard Axial	.029 In/Sec	.045 G-s
MON 32A - ARC Reflux Pmp N	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
M1V - Motor Outboard Vertical	.051 In/Sec	.321 G-s
M1A - Motor Outboard Axial	.074 In/Sec	.115 G-s
M2H - Motor Inboard Horizontal	.059 In/Sec	.303 G-s
M2P - Motor Inboard Horz Peakvue	.044 G-s	
M2V - Motor Inboard Vertical	.050 In/Sec	.073 G-s
M2A - Motor Inboard Axial	.056 In/Sec	.087 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.078 In/Sec	.370 G-s
P1P - Pump Inboard Horz Peakvue	.030 G-s	
P1V - Pump Inboard Vertical	.093 In/Sec	.229 G-s
P1A - Pump Inboard Axial	.090 In/Sec	.416 G-s
P2H - Pump Outboard Horizontal	.075 In/Sec	.347 G-s
P2P - Pump Outboard Horz Peakvue	.061 G-s	
MON 32B - ARC Reflux Pmp S	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.072 In/Sec	.462 G-s
M1P - Motor Outboard Horz Peakvue	.060 G-s	
M1V - Motor Outboard Vertical	.083 In/Sec	.182 G-s
M1A - Motor Outboard Axial	.091 In/Sec	.122 G-s
M2H - Motor Inboard Horizontal	.087 In/Sec	.589 G-s
M2P - Motor Inboard Horz Peakvue	.095 G-s	
M2V - Motor Inboard Vertical	.144 In/Sec	.102 G-s
M2A - Motor Inboard Axial	.204 In/Sec	.131 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.173 In/Sec	.508 G-s
P1P - Pump Inboard Horz Peakvue	.015 G-s	
P1V - Pump Inboard Vertical	.163 In/Sec	.065 G-s
P1A - Pump Inboard Axial	.196 In/Sec	.250 G-s
MON 63E - LBS Side Stream Pump E	(14-May-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.207 In/Sec	.656 G-s
M1P - Motor Outboard Horz Peakvue	.020 G-s	
M1V - Motor Outboard Vertical	.179 In/Sec	.626 G-s
M1A - Motor Outboard Axial	.127 In/Sec	.197 G-s
M2H - Motor Inboard Horizontal	.217 In/Sec	.901 G-s
M2P - Motor Inboard Horz Peakvue	.053 G-s	
M2V - Motor Inboard Vertical	.308 In/Sec	.327 G-s
M2A - Motor Inboard Axial	.180 In/Sec	.232 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.259 In/Sec	.500 G-s
P1P - Pump Inboard Horz Peakvue	.049 G-s	
P1V - Pump Inboard Vertical	.338 In/Sec	.516 G-s
P1A - Pump Inboard Axial	.238 In/Sec	.494 G-s

MON 63W	- LBS Side Stream Pump W	(14-May-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.088 In/Sec	.676 G-s
M1P - Motor Outboard Horz Peakvue		.034 G-s	
M1V - Motor Outboard Vertical		.131 In/Sec	.376 G-s
M1A - Motor Outboard Axial		.128 In/Sec	.885 G-s
M2H - Motor Inboard Horizontal		.069 In/Sec	1.384 G-s
M2P - Motor Inboard Horz Peakvue		.103 G-s	
M2V - Motor Inboard Vertical		.153 In/Sec	.457 G-s
M2A - Motor Inboard Axial		.122 In/Sec	.535 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.299 In/Sec	.541 G-s
P1P - Pump Inboard Horz Peakvue		.198 G-s	
P1V - Pump Inboard Vertical		.207 In/Sec	.363 G-s
P1A - Pump Inboard Axial		.195 In/Sec	.830 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK
Dsp	-->	Mils	P-P

* - Indicates Data Has Date/Time Different From Equipment Date/Time