



March 18, 2020

Lucite

Subject: March 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,

David W. Shook
Senior Reliability Specialists
Hi-Speed Industrial Service
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Detailed Defects

MON65Amide Reactor Circulation Primary

The motor has a large directional or torsional vibration indicating excessive vertical movement. Inspect all fasteners for tightness and the unit base for weakness/flexing. Check the coupling and alignment also. **Rated a Class III Defect.**

SAR 10Process Air Fan E

The fan bearings are most likely in distress. Pulsing at shaft speed can indicate at least one bad area on the bearing race. Suspect an issue during repairs at big shutdown. Make sure fan wheel is not rubbing on the housing. Did you float one of the bearings? Normally we float the outboard bearing (the one closest to the fan wheel, opposite the pulley or coupling). **Rated a Class IV Defect due to the high acceleration.**

SAR66E Vertical Cooling Tower Pump 5

The ski slope on the left side of the spectrum is almost always an indicator of a bad reading. Overwrite the data when this happens. Note the trend is high without strong vibrations in the time domain.

Information only

SAR57B Oleum Tower Circulation Pump B

The Peakvue waterfall data indicates increased wear in the bearings. The acceleration trend is getting close to 4g's peak. Expect to change the bearings before the end of the year. **Rated a Class II Defect.**

ACN29B ACN Cooling Tower Pump M

There 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 have to raise the F max to help better understand what is going on here. **Rated a Class II Defect for now.**

Observations

SAR66B, SAR 66C, and SAR 66E Vertical Cooling Tower Pumps 2, 3, and 5

All three of these pumps 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

1xRPM dominates the velocity spectrum for the motor inboard vertical. Inspect the motor and structure. Trim balance the fan in the future if possible. **Rated a Class I Defect.**

Pump ACN36 ACN Neutral Tank Circulation

Increase in the pump axial at 4x RPM this survey suggests either there is a coupling issue or vane pass issue. Flow variations are more likely, but inspection of the coupling is also suggested.

Rated a Class II Defect.

MON132 Decanter Feed Pump Spare

A high 1xRPM vibration appears to be in both the pump and motor shaft end 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.

ACN13B #2 Kettle Transfer Pump South

The vibration data is similar to that of ACN29B unit but we have a better spectrum F max. Follow the same checks. Rated a Class II defect.

Database lists

Last Monitored Equipment List *****

Database: Lucite Memphis MMA.rbm
Area: MMA
Report Date: 19-Mar-20 07:29
Report Interval: 01-Mar-20 To 19-Mar-20

PERIODIC VIBRATION TECHNOLOGY

Collected Equipment...

EQUIPMENT ID	DESCRIPTION	NUMBER OF POINTS	LATEST DATE
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MON45WM	ACH Ref Brine Pump W	16 OUT OF 18	17-Mar-20
ACN44	ACN Ref Unit Booster #3	16 OUT OF 16	17-Mar-20
MON81	Uninhibited Mon Tank Pump S	12 OUT OF 16	17-Mar-20
MON80	Uninhibited Mon Tank Pump N	12 OUT OF 16	17-Mar-20
MON56	Inhibited Mon Xfer Pump E	12 OUT OF 16	17-Mar-20
MON40	Acetone Pump	12 OUT OF 16	17-Mar-20
ACN08	ACH Blend Tank	12 OUT OF 16	17-Mar-20
ACN07A	ACH Prod Feed Pump N	12 OUT OF 16	17-Mar-20
ACN07B	ACH Prod Feed Pump M	12 OUT OF 18	17-Mar-20
MON85E	Water Treatment Pmp E	12 OUT OF 16	17-Mar-20
MON85W	Water Treatment Pmp W	12 OUT OF 18	17-Mar-20
ACN28B	ACN Fan E	8 OUT OF 16	17-Mar-20
ACN28A	ACN Fan W	8 OUT OF 16	17-Mar-20
ACN29C	ACN Cool Twr Pump S	16 OUT OF 18	17-Mar-20
ACN29B	ACN Cool Twr Pump M	16 OUT OF 18	17-Mar-20
ACN29A	ACN Cool Twr Pump N	16 OUT OF 18	17-Mar-20
ACN36	ACH Neut Tank Circ Pmp	8 OUT OF 16	17-Mar-20
ACN12	#1 Kettle Xfer Pump	12 OUT OF 16	17-Mar-20

ACN10	#1 Kettle Circ Pmp	12	OUT	OF	16	17-Mar-20
ACN13B	#2 Kettle Xfer Pump S	12	OUT	OF	16	17-Mar-20
ACN11	#2 Kettle Circ Pump	12	OUT	OF	16	17-Mar-20
ACN09	ACH Flash Tank Pump	8	OUT	OF	16	17-Mar-20
ACN23	ACH Scrub Circ Pump S	12	OUT	OF	16	17-Mar-20
ACN16	ACH Scrub Circ PumpN	11	OUT	OF	16	17-Mar-20
ACN30	ACH Scrubber Xfer Pmp	12	OUT	OF	16	17-Mar-20
ACN05A	Topp Column Xfer Pmp W	12	OUT	OF	18	17-Mar-20
ACN04	Topping Col Circ Pump	16	OUT	OF	16	17-Mar-20
MON38CNM	LBS Tails Pump N	12	OUT	OF	16	17-Mar-20
MON38CSM	LBS Tails Pump S	12	OUT	OF	18	17-Mar-20
MON132	Decanter Feed Pmp Spare	12	OUT	OF	16	17-Mar-20
MON38A	LBS Reflux Pmp S	12	OUT	OF	18	17-Mar-20
MON38B	LBS Reflux Pmp N	12	OUT	OF	18	17-Mar-20
MON118	Tempered H2O Pmp	16	OUT	OF	16	17-Mar-20
MON55MM	HUT Pump Mid	16	OUT	OF	16	17-Mar-20
MON67NM	PTZ Xfer Pump N	12	OUT	OF	16	17-Mar-20
MON43A	Amide Reactor Circ Pmp #1N	12	OUT	OF	16	17-Mar-20
MON43B	Amide Reactor Circ Pmp #2S	12	OUT	OF	18	17-Mar-20
MON65	Amide Reactor Circ Primary	12	OUT	OF	16	17-Mar-20
MON68A	#1 Reactor H2O Circ Pump	12	OUT	OF	16	17-Mar-20
MON36	Irganox Mix/Feed Pump	12	OUT	OF	31	17-Mar-20
SAR03	Turb Comp Main Blower	10	OUT	OF	10	16-Mar-20
ACN17DP	DP Comp	5	OUT	OF	5	16-Mar-20
ACN28ADP	Cooling Twr Fan W	1	OUT	OF	1	16-Mar-20
ACN28BDP	Cooling Twr Fan E	1	OUT	OF	1	16-Mar-20
SAR55A	Neutralization Pump N	12	OUT	OF	16	17-Mar-20
SAR55B	Neutralization Pump S	12	OUT	OF	16	17-Mar-20
SAR59C	Scrub Twr Circ Pmp E	12	OUT	OF	16	17-Mar-20
SAR59B	Scrub Twr Circ Pmp M	12	OUT	OF	16	17-Mar-20
SAR59A	Scrub Twr Circ Pmp W	12	OUT	OF	18	17-Mar-20
SAR39C	Boiler Feed H2O Pmp NE	16	OUT	OF	16	02-Mar-20
SAR39D	Boiler Feed H2O Pmp SE	16	OUT	OF	16	17-Mar-20
SAR39B	Boiler Feed H2O Pmp SW	16	OUT	OF	16	17-Mar-20
SAR54C	Weak Acid Xfer Pump S	12	OUT	OF	16	17-Mar-20
SAR54B	Weak Acid Xfer Pump N	12	OUT	OF	16	17-Mar-20
SAR50A	Drying Tower Circ Pump W	8	OUT	OF	16	05-Mar-20
SAR50B	Drying Tower Circ Pump E	8	OUT	OF	16	17-Mar-20
SAR66E	Vertical Cool Twr Pump #5	8	OUT	OF	16	17-Mar-20
SAR66D	Vertical Cool Twr Pump #4	8	OUT	OF	16	17-Mar-20
SAR66C	Vertical Cool Twr Pump #3	8	OUT	OF	18	17-Mar-20
SAR66B	Vertical Cool Twr Pump #2	8	OUT	OF	18	17-Mar-20
SAR78A	Cooling Tower Fan #1	8	OUT	OF	16	03-Mar-20
SAR78B	Cooling Tower Fan #2	8	OUT	OF	16	17-Mar-20
SAR78C	Cooling Tower Fan #3	8	OUT	OF	18	17-Mar-20
SAR78D	Cooling Tower Fan #4	8	OUT	OF	18	17-Mar-20
SAR161C	N SAR Cool Twr Fan E	8	OUT	OF	16	17-Mar-20
SAR161B	N SAR Cool Twr Fan Middle	8	OUT	OF	16	17-Mar-20
SAR231A	Final Twr Circ Pump N	8	OUT	OF	18	17-Mar-20
SAR231B	Final Twr Circ Pump S	8	OUT	OF	18	04-Mar-20
SAR57A	Oleum Twr Circ Pump W	8	OUT	OF	16	17-Mar-20
SAR57B	Oleum Twr Circ Pump E	8	OUT	OF	16	04-Mar-20
SAR37A	Interpass Twr Circ Pump N	8	OUT	OF	16	17-Mar-20
SAR128	Oleum Fume Scrub Blwr	12	OUT	OF	16	17-Mar-20
SAR137B	Contain Pit Pumps	4	OUT	OF	18	17-Mar-20
SAR14	Combustion Air Fan W	16	OUT	OF	16	17-Mar-20
SAR13	Combustion Air Fan E	16	OUT	OF	16	17-Mar-20

SAR11	Recycle Fan W	16	OUT	OF	16	17-Mar-20
SAR12	Recycle Fan E	16	OUT	OF	16	17-Mar-20
SAR15	Process Air Fan W	16	OUT	OF	16	17-Mar-20
SAR10	Process Air Fan E	14	OUT	OF	16	17-Mar-20
SAR61NM	Spent Acid Circ Pmp N	8	OUT	OF	16	17-Mar-20
SAR135	Spent Acid Circ Pmp E	16	OUT	OF	16	17-Mar-20
SAR62	Spent Acid Feed Pmp N	12	OUT	OF	16	17-Mar-20
SAR63WM	Spent Acid Feed Pmp W	12	OUT	OF	16	17-Mar-20
SAR63EM	Spent Acid Feed Pmp E	3	OUT	OF	16	17-Mar-20
SAR156	Spent Acid Feed Booster N	8	OUT	OF	16	17-Mar-20
MON169	A/B Booster Pump W	12	OUT	OF	16	17-Mar-20
MON73W	Skim Tub Xfer Pmp W	12	OUT	OF	16	17-Mar-20
SAR 56A	N Oleum Storage Tank Feed	12	OUT	OF	16	17-Mar-20
SAR 56B	M Oleum Storage Tank Feed	15	OUT	OF	16	17-Mar-20
SAR 56C	S Oleum Storage Tank Feed	12	OUT	OF	16	17-Mar-20
MON 32A	ARC Reflux Pmp N	12	OUT	OF	16	17-Mar-20
MON 32B	ARC Reflux Pmp S	16	OUT	OF	16	17-Mar-20
MON 51	WCM Tails Swing/Spare Pmp	12	OUT	OF	16	17-Mar-20
MON 63E	LBS Side Stream Pump E	12	OUT	OF	16	17-Mar-20
MON 63W	LBS Side Stream Pump W	12	OUT	OF	16	17-Mar-20

Missed Equipment...

EQUIPMENT ID	DESCRIPTION					
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MON45EM	ACH Ref Brine Pump E	0	OUT	OF	18	
AC17	Carrier Ref Unit	0	OUT	OF	24	
ACN22	ACN Ref Unit Booster #2	0	OUT	OF	16	
ACN14	ACH Off Grade Pump	0	OUT	OF	16	
ACN07C	ACH Prod Feed Pump S	0	OUT	OF	18	
ACN13A	#2 Kettle Xfer Pump N	0	OUT	OF	16	
ACN05B	Topp Column Xfer Pmp E	0	OUT	OF	18	
ACN31	ACH Prod Xfer Pump S	0	OUT	OF	16	
MON84	WCM Tails Pump S	0	OUT	OF	16	
MON50	Decanter Feed Pump	0	OUT	OF	18	
MON55NM	HUT Pump N	0	OUT	OF	16	
MON55SM	HUT Pump S	0	OUT	OF	16	
MON67SM	PTZ Xfer Pump S	0	OUT	OF	16	
SAR39A	Boiler Feed H2O Pmp NW	0	OUT	OF	16	
SAR70	SAR Refrig Unit Carrier	0	OUT	OF	16	
SAR45N	Chill H2O Circ Pump N	0	OUT	OF	16	
SAR45M	Chill H2O Circ Pump S	0	OUT	OF	16	
SAR38	Drying Tower Pumpout	0	OUT	OF	16	
SAR66A	Vertical Cool Twr Pump #1	0	OUT	OF	18	
SAR161A	N SAR Cool Twr Fan W	0	OUT	OF	18	
SAR127	Final Twr Pumpout Drain Pmp	0	OUT	OF	16	
SAR37B	Interpass Twr Circ Pump S	0	OUT	OF	18	
SAR137A	Contain Pit Pump N	0	OUT	OF	18	
SAR157	Spent Acid Feed Booster S	0	OUT	OF	16	
SAR16	Startup Fan	0	OUT	OF	16	
MON168	A/B Booster Pump E	0	OUT	OF	16	
MON73E	Skim Tub Xfer Pmp E	0	OUT	OF	16	
SAR222	Oleum Twr Drain Pmp	0	OUT	OF	16	
SAR233	InterpassTwr Drain Pmp1	0	OUT	OF	16	
ACN 32	ACH S Prod Storage Recirc Pm	0	OUT	OF	16	
Monitored Point Total =		1076	OUT	OF	2030	

Monitored Equipment Total = 95 OUT OF 125

Abbreviated Last Measurement Summary

Database: Lucite Memphis MMA.rbm
Area: MMA
Route No. 6: TJ ROUTE 1
Report Date: 18-Mar-20 15:24

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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SAR03 - Turb Comp Main Blower	(16-Mar-20)	
	OVERALL LEVEL	
5 - Turbine CPL X	.215 Mils	
6 - Turbine CPL Y	.234 Mils	
7 - Turbine Gov X	.261 Mils	
8 - Turbine Gov Y	.238 Mils	
9 - Blwr IB X	1.292 Mils	
10 - Blwr IB Y	1.481 Mils	
11 - Blwr OB X	.758 Mils	
12 - Blwr OB Y	.732 Mils	
15 - Blwr HSG IB	.045 Mils	
16 - Blwer HSG OB	.068 Mils	
ACN17DP - DP Comp	(16-Mar-20)	
	OVERALL LEVEL	
21 - ACH Motor CPL	.029 Mils	
22 - ACH GB CPL	.171 Mils	
27 - ACH CMP MTR	.014 Mils	
23 - ACH CMP CPL	.057 Mils	
24 - ACH CMP OB	.042 Mils	
ACN28ADP - Cooling Twr Fan W	(16-Mar-20)	
	OVERALL LEVEL	
28 - CT Fan 1 W	.260 Mils	
ACN28BDP - Cooling Twr Fan E	(16-Mar-20)	
	OVERALL LEVEL	
26 - CT Fan 2 E	.313 Mils	
SAR55A - Neutralization Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.067 In/Sec	.448 G-s
MOP - Motor Outboard Horz Peakvue	.160 G-s	
MOV - Motor Outboard Vertical	.078 In/Sec	.058 G-s
MOA - Motor Outboard Axial	.159 In/Sec	.070 G-s
MIH - Motor Inboard Horizontal	.082 In/Sec	1.414 G-s
MIP - Motor Inboard Horz Peakvue	.622 G-s	
MIV - Motor Inboard Vertical	.092 In/Sec	.277 G-s
MIA - Motor Inboard Axial	.111 In/Sec	.386 G-s
	OVERALL LEVEL	1K-20KHz

PIH - Pump Inboard Horizontal	.092 In/Sec	.274 G-s
PIP - Pump Inboard Horz Peakvue	.066 G-s	
PIV - Pump Inboard Vertical	.083 In/Sec	.123 G-s
PIA - Pump Inboard Axial	.080 In/Sec	.182 G-s

SAR55B - Neutralization Pump S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.055 In/Sec	1.305 G-s
MOP - Motor Outboard Horz Peakvue	.103 G-s	
MOV - Motor Outboard Vertical	.080 In/Sec	.312 G-s
MOA - Motor Outboard Axial	.055 In/Sec	.654 G-s
MIH - Motor Inboard Horizontal	.061 In/Sec	1.774 G-s
MIP - Motor Inboard Horz Peakvue	.410 G-s	
MIV - Motor Inboard Vertical	.064 In/Sec	.493 G-s
MIA - Motor Inboard Axial	.058 In/Sec	.410 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.058 In/Sec	.279 G-s
PIP - Pump Inboard Horz Peakvue	.088 G-s	
PIV - Pump Inboard Vertical	.081 In/Sec	.259 G-s
PIA - Pump Inboard Axial	.064 In/Sec	.257 G-s

SAR59C - Scrub Twr Circ Pmp E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.086 In/Sec	.203 G-s
MOP - Motor Outboard Horz Peakvue	.054 G-s	
MOV - Motor Outboard Vertical	.074 In/Sec	.027 G-s
MOA - Motor Outboard Axial	.143 In/Sec	.053 G-s
MIH - Motor Inboard Horizontal	.032 In/Sec	.661 G-s
MIP - Motor Inboard Horz Peakvue	.278 G-s	
MIV - Motor Inboard Vertical	.029 In/Sec	.221 G-s
MIA - Motor Inboard Axial	.037 In/Sec	.071 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.097 In/Sec	.508 G-s
PIP - Pump Inboard Horz Peakvue	.281 G-s	
PIV - Pump Inboard Vertical	.049 In/Sec	.225 G-s
PIA - Pump Inboard Axial	.053 In/Sec	.259 G-s

SAR59B - Scrub Twr Circ Pmp M	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.035 In/Sec	.482 G-s
MOP - Motor Outboard Horz Peakvue	.275 G-s	
MOV - Motor Outboard Vertical	.052 In/Sec	.376 G-s
MOA - Motor Outboard Axial	.038 In/Sec	.173 G-s
MIH - Motor Inboard Horizontal	.038 In/Sec	.785 G-s
MIP - Motor Inboard Horz Peakvue	.679 G-s	
MIV - Motor Inboard Vertical	.040 In/Sec	.334 G-s
MIA - Motor Inboard Axial	.044 In/Sec	.358 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.109 In/Sec	.577 G-s
PIP - Pump Inboard Horz Peakvue	.340 G-s	
PIV - Pump Inboard Vertical	.065 In/Sec	.524 G-s
PIA - Pump Inboard Axial	.064 In/Sec	.290 G-s

SAR59A - Scrub Twr Circ Pmp W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.025 In/Sec	.635 G-s
MOP - Motor Outboard Horz Peakvue	.408 G-s	

MOV - Motor Outboard Vertical	.037 In/Sec	.148 G-s
MOA - Motor Outboard Axial	.028 In/Sec	.301 G-s
MIH - Motor Inboard Horizontal	.023 In/Sec	.380 G-s
MIP - Motor Inboard Horz Peakvue	.198 G-s	
MIV - Motor Inboard Vertical	.031 In/Sec	.210 G-s
MIA - Motor Inboard Axial	.023 In/Sec	.160 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.075 In/Sec	.605 G-s
PIP - Pump Inboard Horz Peakvue	.408 G-s	
PIV - Pump Inboard Vertical	.054 In/Sec	.244 G-s
PIA - Pump Inboard Axial	.071 In/Sec	.192 G-s

SAR39D - Boiler Feed H2O Pmp SE

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.056 In/Sec	.306 G-s
MOP - Motor Outboard Horz Peakvue	.020 G-s	
MOV - Motor Outboard Vertical	.040 In/Sec	.107 G-s
MOA - Motor Outboard Axial	.087 In/Sec	.099 G-s
MIH - Motor Inboard Horizontal	.056 In/Sec	.607 G-s
MIP - Motor Inboard Horz Peakvue	.045 G-s	
MIV - Motor Inboard Vertical	.059 In/Sec	.178 G-s
MIA - Motor Inboard Axial	.085 In/Sec	.095 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.100 In/Sec	.591 G-s
PIP - Pump Inboard Horz Peakvue	.019 G-s	
PIV - Pump Inboard Vertical	.093 In/Sec	.120 G-s
PIA - Pump Inboard Axial	.049 In/Sec	.153 G-s
POH - Pump Outboard Horizontal	.074 In/Sec	.206 G-s
POP - Pump Outboard Horz Peakvue	.0064 G-s	
POV - Pump Outboard Vertical	.052 In/Sec	.107 G-s
POA - Pump Outboard Axial	.076 In/Sec	.088 G-s

SAR39B - Boiler Feed H2O Pmp SW

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.037 In/Sec	.332 G-s
MOP - Motor Outboard Horz Peakvue	.033 G-s	
MOV - Motor Outboard Vertical	.069 In/Sec	.261 G-s
MOA - Motor Outboard Axial	.154 In/Sec	.090 G-s
MIH - Motor Inboard Horizontal	.035 In/Sec	.591 G-s
MIP - Motor Inboard Horz Peakvue	.063 G-s	
MIV - Motor Inboard Vertical	.090 In/Sec	.178 G-s
MIA - Motor Inboard Axial	.074 In/Sec	.268 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.020 In/Sec	.400 G-s
PIP - Pump Inboard Horz Peakvue	.208 G-s	
PIV - Pump Inboard Vertical	.036 In/Sec	.342 G-s
PIA - Pump Inboard Axial	.065 In/Sec	.240 G-s
POH - Pump Outboard Horizontal	.020 In/Sec	.280 G-s
POP - Pump Outboard Horz Peakvue	.055 G-s	
POV - Pump Outboard Vertical	.053 In/Sec	.243 G-s
POA - Pump Outboard Axial	.069 In/Sec	.128 G-s

SAR54C - Weak Acid Xfer Pump S

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.044 In/Sec	.055 G-s
MOP - Motor Outboard Horz Peakvue	.011 G-s	
MOV - Motor Outboard Vertical	.035 In/Sec	.019 G-s

MOA - Motor Outboard Axial	.047 In/Sec	.013 G-s
MIH - Motor Inboard Horizontal	.044 In/Sec	.242 G-s
MIP - Motor Inboard Horz Peakvue	.117 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.049 G-s
MIA - Motor Inboard Axial	.037 In/Sec	.037 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.095 In/Sec	.350 G-s
PIP - Pump Inboard Horz Peakvue	.0042 G-s	
PIV - Pump Inboard Vertical	.050 In/Sec	.109 G-s
PIA - Pump Inboard Axial	.057 In/Sec	.142 G-s

SAR54B - Weak Acid Xfer Pump N

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.054 In/Sec	.209 G-s
MOP - Motor Outboard Horz Peakvue	.117 G-s	
MOV - Motor Outboard Vertical	.068 In/Sec	.193 G-s
MOA - Motor Outboard Axial	.077 In/Sec	.226 G-s
MIH - Motor Inboard Horizontal	.093 In/Sec	.261 G-s
MIP - Motor Inboard Horz Peakvue	.022 G-s	
MIV - Motor Inboard Vertical	.110 In/Sec	.103 G-s
MIA - Motor Inboard Axial	.095 In/Sec	.096 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.108 In/Sec	.792 G-s
PIP - Pump Inboard Horz Peakvue	.241 G-s	
PIV - Pump Inboard Vertical	.065 In/Sec	.681 G-s
PIA - Pump Inboard Axial	.099 In/Sec	.414 G-s

SAR50B - Drying Tower Circ Pump E

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.155 In/Sec	1.072 G-s
MOP - Motor Outboard Horz Peakvue	.564 G-s	
MOV - Motor Outboard Vertical	.132 In/Sec	.219 G-s
MOA - Motor Outboard Axial	.265 In/Sec	.289 G-s
MIH - Motor Inboard Horizontal	.125 In/Sec	.530 G-s
MIP - Motor Inboard Horz Peakvue	.225 G-s	
MIV - Motor Inboard Vertical	.135 In/Sec	.133 G-s
MIA - Motor Inboard Axial	.146 In/Sec	.200 G-s

SAR66E - Vertical Cool Twr Pump #5

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.164 In/Sec	.175 G-s
MOP - Motor Outboard Horz Peakvue	.071 G-s	
MOV - Motor Outboard Vertical N-S	.352 In/Sec	.319 G-s
MOA - Motor Outboard Axial	.480 In/Sec	.248 G-s
MIH - Motor Inboard Horizontal E-W	.046 In/Sec	.487 G-s
MIP - Motor Inboard Horz Peakvue	.160 G-s	
MIV - Motor Inboard Vertical N-S	.147 In/Sec	.302 G-s
MIA - Motor Inboard Axial	.236 In/Sec	.375 G-s

SAR66D - Vertical Cool Twr Pump #4

(17-Mar-20)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.133 In/Sec	.094 G-s
MOP - Motor Outboard Horz Peakvue	.049 G-s	
MOV - Motor Outboard Vertical	.084 In/Sec	.080 G-s
MOA - Motor Outboard Axial	.163 In/Sec	.091 G-s
MIH - Motor Inboard Horizontal	.070 In/Sec	.062 G-s
MIP - Motor Inboard Horz Peakvue	.031 G-s	

MIV - Motor Inboard Vertical	.074 In/Sec	.052 G-s
MIA - Motor Inboard Axial	.103 In/Sec	.071 G-s
SAR66C - Vertical Cool Twr Pump #3 (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.389 In/Sec	.071 G-s
MOP - Motor Outboard Horz Peakvue	.038 G-s	
MOV - Motor Outboard Vertical	.112 In/Sec	.032 G-s
MOA - Motor Outboard Vertical	.215 In/Sec	.031 G-s
MIH - Motor Inboard Horizontal	.173 In/Sec	.065 G-s
MIP - Motor Inboard Horz Peakvue	.039 G-s	
MIV - Motor Inboard Vertical	.121 In/Sec	.027 G-s
MIA - Motor Inboard Axial	.087 In/Sec	.062 G-s
SAR66B - Vertical Cool Twr Pump #2 (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.242 In/Sec	.122 G-s
MOP - Motor Outboard Horz Peakvue	.063 G-s	
MOV - Motor Outboard Vertical	.141 In/Sec	.131 G-s
MOA - Motor Outboard Axial	.387 In/Sec	.116 G-s
MIH - Motor Inboard Horizontal	.128 In/Sec	.277 G-s
MIP - Motor Inboard Horz Peakvue	.144 G-s	
MIV - Motor Inboard Vertical	.177 In/Sec	.115 G-s
MIA - Motor Inboard Axial	.159 In/Sec	.152 G-s
SAR78B - Cooling Tower Fan #2 (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.113 In/Sec	1.783 G-s
MOP - Motor Outboard Horz Peakvue	.806 G-s	
MOV - Motor Outboard Vertical	.112 In/Sec	1.206 G-s
MOA - Motor Outboard Axial	.147 In/Sec	.955 G-s
MIH - Motor Inboard Horizontal	.130 In/Sec	1.416 G-s
MIP - Motor Inboard Horz Peakvue	.643 G-s	
MIV - Motor Inboard Vertical	.129 In/Sec	.839 G-s
MIA - Motor Inboard Axial	.148 In/Sec	.835 G-s
SAR78C - Cooling Tower Fan #3 (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.092 In/Sec	.576 G-s
MOP - Motor Outboard Horz Peakvue	.204 G-s	
MOV - Motor Outboard Vertical	.082 In/Sec	.557 G-s
MOA - Motor Outboard Axial	.151 In/Sec	.221 G-s
MIH - Motor Inboard Horizontal	.066 In/Sec	1.871 G-s
MIP - Motor Inboard Horz Peakvue	.506 G-s	
MIV - Motor Inboard Vertical	.156 In/Sec	.471 G-s
MIA - Motor Inboard Axial	.114 In/Sec	.285 G-s
SAR78D - Cooling Tower Fan #4 (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.121 In/Sec	.556 G-s
MOP - Motor Outboard Horz Peakvue	.261 G-s	
MOV - Motor Outboard Vertical	.278 In/Sec	.243 G-s
MOA - Motor Outboard Axial	.217 In/Sec	.176 G-s
MIH - Motor Inboard Horizontal	.095 In/Sec	.339 G-s
MIP - Motor Inboard Horz Peakvue	.159 G-s	
MIV - Motor Inboard Vertical	.173 In/Sec	.168 G-s
MIA - Motor Inboard Axial	.161 In/Sec	.173 G-s

SAR161C	- N SAR Cool Twr Fan E	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.068 In/Sec	.288 G-s
MOP - Motor Outboard Horz Peakvue		.117 G-s	
MOV - Motor Outboard Vertical		.147 In/Sec	.194 G-s
MOA - Motor Outboard Axial		.223 In/Sec	.114 G-s
MIH - Motor Inboard Horizontal		.251 In/Sec	.313 G-s
MIP - Motor Inboard Horz Peakvue		.108 G-s	
MIV - Motor Inboard Vertical		.182 In/Sec	.325 G-s
MIA - Motor Inboard Axial		.202 In/Sec	.156 G-s
SAR161B	- N SAR Cool Twr Fan Middle	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.122 In/Sec	.755 G-s
MOP - Motor Outboard Horz Peakvue		.223 G-s	
MOV - Motor Outboard Vertical		.139 In/Sec	.559 G-s
MOA - Motor Outboard Axial		.165 In/Sec	.379 G-s
MIH - Motor Inboard Horizontal		.161 In/Sec	.939 G-s
MIP - Motor Inboard Horz Peakvue		.215 G-s	
MIV - Motor Inboard Vertical		.137 In/Sec	.298 G-s
MIA - Motor Inboard Axial		.176 In/Sec	.233 G-s
SAR231A	- Final Twr Circ Pump N	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W		.082 In/Sec	.682 G-s
MOP - Motor Outboard Horz Peakvue		.292 G-s	
MOV - Motor Outboard Vertical N-S		.079 In/Sec	.483 G-s
MOA - Motor Outboard Axial		.110 In/Sec	.303 G-s
MIH - Motor Inboard Horizontal E-W		.066 In/Sec	.732 G-s
MIP - Motor Inboard Horz Peakvue		.344 G-s	
MIV - Motor Inboard Vertical N-S		.065 In/Sec	.263 G-s
MIA - Motor Inboard Axial		.090 In/Sec	.240 G-s
SAR231B	- Final Twr Circ Pump S	(19-Feb-20)	
		OVERALL LEVEL	1K-20kHz
* MOH - Motor Outboard Horizontal		.065 In/Sec	.568 G-s
* MOP - Motor Outboard Horz Peakvue		.332 G-s	
* MOV - Motor Outboard Vertical		.033 In/Sec	.185 G-s
* MOA - Motor Outboard Axial		.084 In/Sec	.254 G-s
* MIH - Motor Inboard Horizontal		.049 In/Sec	.695 G-s
* MIP - Motor Inboard Horz Peakvue		.367 G-s	
* MIV - Motor Inboard Vertical		.037 In/Sec	.274 G-s
* MIA - Motor Inboard Axial		.119 In/Sec	.352 G-s
SAR 56A	- N Oleum Storage Tank Feed	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.115 In/Sec	.091 G-s
M1P - Motor Outboard Horz Peakvue		.036 G-s	
M1V - Motor Outboard Vertical		.077 In/Sec	.036 G-s
M1A - Motor Outboard Axial		.129 In/Sec	.045 G-s
M2H - Motor Inboard Horizontal		.075 In/Sec	.291 G-s
M2P - Motor Inboard Horz Peakvue		.169 G-s	
M2V - Motor Inboard Vertical		.042 In/Sec	.061 G-s
M2A - Motor Inboard Axial		.058 In/Sec	.043 G-s
		OVERALL LEVEL	1K-20KHz
PlH - Pump Inboard Horizontal		.058 In/Sec	.103 G-s

P1P - Pump Inboard Horz Peakvue	.062 G-s	
P1V - Pump Inboard Vertical	.033 In/Sec	.051 G-s
P1A - Pump Inboard Axial	.046 In/Sec	.044 G-s
SAR 56B - M Oleum Storage Tank Feed	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.086 In/Sec	.396 G-s
M1P - Motor Outboard Horz Peakvue	.089 G-s	
M1V - Motor Outboard Vertical	.159 In/Sec	.136 G-s
M1A - Motor Outboard Axial	.123 In/Sec	.123 G-s
M2H - Motor Inboard Horizontal	.071 In/Sec	.230 G-s
M2P - Motor Inboard Horz Peakvue	.083 G-s	
M2V - Motor Inboard Vertical	.063 In/Sec	.071 G-s
M2A - Motor Inboard Axial	.115 In/Sec	.048 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.141 In/Sec	.217 G-s
P1P - Pump Inboard Horz Peakvue	.180 G-s	
P1V - Pump Inboard Vertical	.061 In/Sec	.059 G-s
P1A - Pump Inboard Axial	.048 In/Sec	.077 G-s
P2H - Pump Outboard Horizontal	.110 In/Sec	.228 G-s
P2P - Pump Outboard Horz Peakvue	.113 G-s	
P2V - Pump Outboard Vertical	.060 In/Sec	.103 G-s
SAR 56C - S Oleum Storage Tank Feed	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.112 In/Sec	.225 G-s
M1P - Motor Outboard Horz Peakvue	.114 G-s	
M1V - Motor Outboard Vertical	.059 In/Sec	.105 G-s
M1A - Motor Outboard Axial	.053 In/Sec	.085 G-s
M2H - Motor Inboard Horizontal	.043 In/Sec	.309 G-s
M2P - Motor Inboard Horz Peakvue	.373 G-s	
M2V - Motor Inboard Vertical	.044 In/Sec	.216 G-s
M2A - Motor Inboard Axial	.035 In/Sec	.227 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.133 In/Sec	.186 G-s
P1P - Pump Inboard Horz Peakvue	.016 G-s	
P1V - Pump Inboard Vertical	.041 In/Sec	.102 G-s
P1A - Pump Inboard Axial	.030 In/Sec	.072 G-s
SAR128 - Oleum Fume Scrub Blwr	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.047 In/Sec	.248 G-s
MIP - Motor Inboard Horz Peakvue	.088 G-s	
MIV - Motor Inboard Vertical	.052 In/Sec	.066 G-s
MIA - Motor Inboard Axial	.041 In/Sec	.054 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.068 In/Sec	.307 G-s
FIP - Fan Inboard Horz Peakvue	.056 G-s	
FIV - Fan Inboard Vertical	.025 In/Sec	.178 G-s
FIA - Fan Inboard Axial	.035 In/Sec	.068 G-s
FOH - Fan Outboard Horizontal	.085 In/Sec	.238 G-s
FOP - Fan Outboard Horz Peakvue	.075 G-s	
FOV - Fan Outboard Vertical	.068 In/Sec	.309 G-s
FOA - Fan Outboard Axial	.091 In/Sec	.276 G-s
SAR137B - Contain Pit PumpS	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz

MOH - Motor Outboard Horizontal E-W	.087 In/Sec	.216 G-s
MOP - Motor Outboard Horz Peakvue	.124 G-s	
MOV - Motor Outboard Vertical N-S	.064 In/Sec	.091 G-s
MOA - Motor Outboard Axial	.097 In/Sec	.073 G-s
SAR57A - Oleum Twr Circ Pump W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.066 In/Sec	.386 G-s
MOP - Motor Outboard Horz Peakvue	.024 G-s	
MOV - Motor Outboard Vertical N-S	.086 In/Sec	.054 G-s
MOA - Motor Outboard Axial	.067 In/Sec	.055 G-s
MIH - Motor Inboard Horizontal E-W	.071 In/Sec	1.079 G-s
MIP - Motor Inboard Horz Peakvue	.273 G-s	
MIV - Motor Inboard Vertical N-S	.079 In/Sec	.545 G-s
MIA - Motor Inboard Axial	.085 In/Sec	1.273 G-s
SAR57B - Oleum Twr Circ Pump E	(19-Feb-20)	
	OVERALL LEVEL	1K-20kHz
* MOH - Motor Outboard Horizontal E-W	.102 In/Sec	2.355 G-s
* MOP - Motor Outboard Horz Peakvue	1.194 G-s	
* MOV - Motor Outboard Vertical N-S	.103 In/Sec	.480 G-s
* MOA - Motor Outboard Axial	.103 In/Sec	.387 G-s
* MIH - Motor Inboard Horizontal E-W	.107 In/Sec	3.421 G-s
* MIP - Motor Inboard Horz Peakvue	1.815 G-s	
* MIV - Motor Inboard Vertical N-S	.119 In/Sec	1.216 G-s
* MIA - Motor Inboard Axial	.103 In/Sec	1.295 G-s
SAR37A - Interpass Twr Circ Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal E-W	.055 In/Sec	.350 G-s
MOP - Motor Outboard Horz Peakvue	.211 G-s	
MOV - Motor Outboard Vertical N-S	.047 In/Sec	.109 G-s
MOA - Motor Outboard Axial	.066 In/Sec	.090 G-s
MIH - Motor Inboard Horizontal E-W	.053 In/Sec	.557 G-s
MIP - Motor Inboard Horz Peakvue	.204 G-s	
MIV - Motor Inboard Vertical N-S	.047 In/Sec	.125 G-s
MIA - Motor Inboard Axial	.057 In/Sec	.113 G-s
SAR14 - Combustion Air Fan W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.085 In/Sec	.573 G-s
MOP - Motor Outboard Horz Peakvue	.266 G-s	
MOV - Motor Outboard Vertical	.036 In/Sec	.251 G-s
MOA - Motor Outboard Axial	.034 In/Sec	.355 G-s
MIH - Motor Inboard Horizontal	.087 In/Sec	1.428 G-s
MIP - Motor Inboard Horz Peakvue	.766 G-s	
MIV - Motor Inboard Vertical	.043 In/Sec	.466 G-s
MIA - Motor Inboard Axial	.038 In/Sec	.692 G-s
	OVERALL LEVEL	1K-20kHz
FIH - Fan Inboard Horizontal	.090 In/Sec	2.243 G-s
FIP - Fan Inboard Horz Peakvue	1.319 G-s	
FIV - Fan Inboard Vertical	.054 In/Sec	1.105 G-s
FIA - Fan Inboard Axial	.053 In/Sec	.494 G-s
FOH - Fan Outboard Horizontal	.098 In/Sec	2.041 G-s
FOP - Fan Outboard Horz Peakvue	1.168 G-s	
FOV - Fan Outboard Vertical	.057 In/Sec	1.000 G-s
FOA - Fan Outboard Axial	.049 In/Sec	.378 G-s

SAR11	- Recycle Fan W	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.034 In/Sec	.539 G-s
MOP - Motor Outboard Horz Peakvue		.281 G-s	
MOV - Motor Outboard Vertical		.043 In/Sec	.088 G-s
MOA - Motor Outboard Axial		.044 In/Sec	.114 G-s
MIH - Motor Inboard Horizontal		.023 In/Sec	.405 G-s
MIP - Motor Inboard Horz Peakvue		.182 G-s	
MIV - Motor Inboard Vertical		.045 In/Sec	.134 G-s
MIA - Motor Inboard Axial		.042 In/Sec	.106 G-s
		OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal		.018 In/Sec	.025 G-s
FIP - Fan Inboard Horz Peakvue		.013 G-s	
FIV - Fan Inboard Vertical		.011 In/Sec	.0089 G-s
FIA - Fan Inboard Axial		.018 In/Sec	.0066 G-s
FOH - Fan Outboard Horizontal		.019 In/Sec	.017 G-s
FOP - Fan Outboard Horz Peakvue		.0088 G-s	
FOV - Fan Outboard Vertical		.011 In/Sec	.0075 G-s
FOA - Fan Outboard Axial		.018 In/Sec	.0065 G-s
SAR15	- Process Air Fan W	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.067 In/Sec	.493 G-s
MOP - Motor Outboard Horz Peakvue		.174 G-s	
MOV - Motor Outboard Vertical		.053 In/Sec	.579 G-s
MOA - Motor Outboard Axial		.069 In/Sec	.417 G-s
MIH - Motor Inboard Horizontal		.053 In/Sec	2.233 G-s
MIP - Motor Inboard Horz Peakvue		.970 G-s	
MIV - Motor Inboard Vertical		.066 In/Sec	.561 G-s
MIA - Motor Inboard Axial		.068 In/Sec	.727 G-s
		OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal		.068 In/Sec	1.006 G-s
FIP - Fan Inboard Horz Peakvue		.581 G-s	
FIV - Fan Inboard Vertical		.037 In/Sec	.750 G-s
FIA - Fan Inboard Axial		.058 In/Sec	.894 G-s
FOH - Fan Outboard Horizontal		.074 In/Sec	1.365 G-s
FOP - Fan Outboard Horz Peakvue		.902 G-s	
FOV - Fan Outboard Vertical		.074 In/Sec	.912 G-s
FOA - Fan Outboard Axial		.051 In/Sec	.412 G-s
SAR12	- Recycle Fan E	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.114 In/Sec	.477 G-s
MOP - Motor Outboard Horz Peakvue		.134 G-s	
MOV - Motor Outboard Vertical		.071 In/Sec	.326 G-s
MOA - Motor Outboard Axial		.108 In/Sec	.141 G-s
MIH - Motor Inboard Horizontal		.125 In/Sec	1.668 G-s
MIP - Motor Inboard Horz Peakvue		1.133 G-s	
MIV - Motor Inboard Vertical		.144 In/Sec	.991 G-s
MIA - Motor Inboard Axial		.090 In/Sec	.329 G-s
		OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal		.125 In/Sec	.180 G-s
FIP - Fan Inboard Horz Peakvue		.168 G-s	
FIV - Fan Inboard Vertical		.107 In/Sec	.180 G-s
FIA - Fan Inboard Axial		.188 In/Sec	.127 G-s
FOH - Fan Outboard Horizontal		.168 In/Sec	.563 G-s

FOP - Fan Outboard Horz Peakvue	.665 G-s	
FOV - Fan Outboard Vertical	.203 In/Sec	.358 G-s
FOA - Fan Outboard Axial	.159 In/Sec	.280 G-s

SAR10 - Process Air Fan E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.171 In/Sec	.565 G-s
MOP - Motor Outboard Horz Peakvue	.270 G-s	
MOV - Motor Outboard Vertical	.057 In/Sec	.563 G-s
MOA - Motor Outboard Axial	.099 In/Sec	.133 G-s
MIH - Motor Inboard Horizontal	.138 In/Sec	1.454 G-s
MIP - Motor Inboard Horz Peakvue	.930 G-s	
MIV - Motor Inboard Vertical	.084 In/Sec	.384 G-s
MIA - Motor Inboard Axial	.097 In/Sec	.285 G-s
	OVERALL LEVEL	1K-20KHz
FIV - Fan Inboard Vertical	.245 In/Sec	4.165 G-s
FIA - Fan Inboard Axial	.384 In/Sec	4.958 G-s
FOH - Fan Outboard Horizontal	.323 In/Sec	6.406 G-s
FOP - Fan Outboard Horz Peakvue	1.511 G-s	
FOV - Fan Outboard Vertical	.170 In/Sec	1.866 G-s
FOA - Fan Outboard Axial	.197 In/Sec	1.060 G-s

SAR13 - Combustion Air Fan E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.064 In/Sec	.897 G-s
MOP - Motor Outboard Horz Peakvue	.519 G-s	
MOV - Motor Outboard Vertical	.032 In/Sec	.400 G-s
MOA - Motor Outboard Axial	.067 In/Sec	.384 G-s
MIH - Motor Inboard Horizontal	.066 In/Sec	.994 G-s
MIP - Motor Inboard Horz Peakvue	.757 G-s	
MIV - Motor Inboard Vertical	.040 In/Sec	.240 G-s
MIA - Motor Inboard Axial	.052 In/Sec	.355 G-s
	OVERALL LEVEL	1K-20KHz
FIH - Fan Inboard Horizontal	.075 In/Sec	.341 G-s
FIP - Fan Inboard Horz Peakvue	.166 G-s	
FIV - Fan Inboard Vertical	.049 In/Sec	.406 G-s
FIA - Fan Inboard Axial	.053 In/Sec	.078 G-s
FOH - Fan Outboard Horizontal	.033 In/Sec	.535 G-s
FOP - Fan Outboard Horz Peakvue	.262 G-s	
FOV - Fan Outboard Vertical	.194 In/Sec	.388 G-s
FOA - Fan Outboard Axial	.073 In/Sec	.183 G-s

SAR61NM - Spent Acid Circ Pmp N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal	.043 In/Sec	.232 G-s
MIP - Motor Inboard Horz Peakvue	.049 G-s	
MIV - Motor Inboard Vertical	.044 In/Sec	.060 G-s
MIA - Motor Inboard Axial	.035 In/Sec	.164 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.017 In/Sec	.053 G-s
PIP - Pump Inboard Horz Peakvue	.0079 G-s	
PIV - Pump Inboard Vertical	.022 In/Sec	.030 G-s
PIA - Pump Inboard Axial	.033 In/Sec	.0079 G-s

SAR62 - Spent Acid Feed Pmp N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.019 In/Sec	.112 G-s

MOP - Motor Outboard Horz Peakvue	.0068 G-s	
MOV - Motor Outboard Vertical	.035 In/Sec	.075 G-s
MOA - Motor Outboard Axial	.035 In/Sec	.056 G-s
MIH - Motor Inboard Horizontal	.015 In/Sec	.035 G-s
MIP - Motor Inboard Horz Peakvue	.0019 G-s	
MIV - Motor Inboard Vertical	.021 In/Sec	.015 G-s
MIA - Motor Inboard Axial	.039 In/Sec	.012 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.017 In/Sec	.109 G-s
PIP - Pump Inboard Horz Peakvue	.0019 G-s	
PIV - Pump Inboard Vertical	.036 In/Sec	.055 G-s
PIA - Pump Inboard Axial	.029 In/Sec	.063 G-s
SAR63WM - Spent Acid Feed Pmp W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.039 In/Sec	.175 G-s
MOP - Motor Outboard Horz Peakvue	.011 G-s	
MOV - Motor Outboard Vertical	.022 In/Sec	.020 G-s
MOA - Motor Outboard Axial	.029 In/Sec	.031 G-s
MIH - Motor Inboard Horizontal	.043 In/Sec	.416 G-s
MIP - Motor Inboard Horz Peakvue	.032 G-s	
MIV - Motor Inboard Vertical	.029 In/Sec	.023 G-s
MIA - Motor Inboard Axial	.041 In/Sec	.033 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.069 In/Sec	.496 G-s
PIP - Pump Inboard Horz Peakvue	.023 G-s	
PIV - Pump Inboard Vertical	.051 In/Sec	.118 G-s
PIA - Pump Inboard Axial	.049 In/Sec	.220 G-s
SAR135 - Spent Acid Circ Pmp E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.044 In/Sec	.050 G-s
MOP - Motor Outboard Horz Peakvue	.0043 G-s	
MOV - Motor Outboard Vertical	.084 In/Sec	.0086 G-s
MOA - Motor Outboard Axial	.042 In/Sec	.0031 G-s
MIH - Motor Inboard Horizontal	.031 In/Sec	.274 G-s
MIP - Motor Inboard Horz Peakvue	.064 G-s	
MIV - Motor Inboard Vertical	.052 In/Sec	.043 G-s
MIA - Motor Inboard Axial	.056 In/Sec	.025 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.103 In/Sec	.256 G-s
PIP - Pump Inboard Horz Peakvue	.027 G-s	
PIV - Pump Inboard Vertical	.065 In/Sec	.069 G-s
PIA - Pump Inboard Axial	.048 In/Sec	.073 G-s
POH - Pump Outboard Horizontal	.077 In/Sec	.323 G-s
POP - Pump Outboard Horz Peakvue	.058 G-s	
POV - Pump Outboard Vertical	.071 In/Sec	.069 G-s
POA - Pump Outboard Axial	.058 In/Sec	.153 G-s
SAR63EM - Spent Acid Feed Pmp E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.054 In/Sec	.671 G-s
MOP - Motor Outboard Horz Peakvue	.0042 G-s	
MOV - Motor Outboard Vertical	.056 In/Sec	.149 G-s
SAR156 - Spent Acid Feed Booster N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz

MIH - Motor Inboard Horizontal	.042 In/Sec	.682 G-s
MIP - Motor Inboard Horz Peakvue	.381 G-s	
MIV - Motor Inboard Vertical	.055 In/Sec	.161 G-s
MIA - Motor Inboard Axial	.042 In/Sec	.178 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.115 In/Sec	.135 G-s
PIP - Pump Inboard Horz Peakvue	.114 G-s	
PIV - Pump Inboard Vertical	.090 In/Sec	.130 G-s
PIA - Pump Inboard Axial	.040 In/Sec	.187 G-s
MON169 - A/B Booster Pump W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.099 In/Sec	.454 G-s
MOP - Motor Outboard Horz Peakvue	.104 G-s	
MOV - Motor Outboard Vertical	.048 In/Sec	.240 G-s
MOA - Motor Outboard Axial	.042 In/Sec	.070 G-s
MIH - Motor Inboard Horizontal	.079 In/Sec	.301 G-s
MIP - Motor Inboard Horz Peakvue	.152 G-s	
MIV - Motor Inboard Vertical	.059 In/Sec	.205 G-s
MIA - Motor Inboard Axial	.089 In/Sec	.260 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.086 In/Sec	.084 G-s
PIP - Pump Inboard Horz Peakvue	.047 G-s	
PIV - Pump Inboard Vertical	.045 In/Sec	.020 G-s
PIA - Pump Inboard Axial	.049 In/Sec	.050 G-s
MON73W - Skim Tub Xfer Pmp W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.028 In/Sec	.240 G-s
MOP - Motor Outboard Horz Peakvue	.096 G-s	
MOV - Motor Outboard Vertical	.047 In/Sec	.105 G-s
MOA - Motor Outboard Axial	.048 In/Sec	.056 G-s
MIH - Motor Inboard Horizontal	.024 In/Sec	.501 G-s
MIP - Motor Inboard Horz Peakvue	.279 G-s	
MIV - Motor Inboard Vertical	.028 In/Sec	.214 G-s
MIA - Motor Inboard Axial	.032 In/Sec	.156 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.040 In/Sec	.064 G-s
PIP - Pump Inboard Horz Peakvue	.044 G-s	
PIV - Pump Inboard Vertical	.027 In/Sec	.059 G-s
PIA - Pump Inboard Axial	.029 In/Sec	.046 G-s
MON45WM - ACH Ref Brine Pump W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.038 In/Sec	1.390 G-s
MOP - Motor Outboard Horz Peakvue	.533 G-s	
MOV - Motor Outboard Vertical	.097 In/Sec	.446 G-s
MOA - Motor Outboard Axial	.113 In/Sec	.410 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	1.314 G-s
MIP - Motor Inboard Horz Peakvue	.743 G-s	
MIV - Motor Inboard Vertical	.095 In/Sec	.489 G-s
MIA - Motor Inboard Axial	.128 In/Sec	.477 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.162 In/Sec	.713 G-s
PIP - Pump Inboard Horz Peakvue	.405 G-s	
PIV - Pump Inboard Vertical	.128 In/Sec	.229 G-s
PIA - Pump Inboard Axial	.087 In/Sec	.290 G-s

POH - Pump Outboard Horizontal	.102 In/Sec	.946 G-s
POP - Pump Outboard Horz Peakvue	.542 G-s	
POV - Pump Outboard Vertical	.124 In/Sec	.264 G-s
POA - Pump Outboard Axial	.084 In/Sec	.431 G-s

ACN44 - ACN Ref Unit Booster #3	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	.935 G-s
MOP - Motor Outboard Horz Peakvue	.065 G-s	
MOV - Motor Outboard Vertical	.081 In/Sec	.230 G-s
MOA - Motor Outboard Axial	.094 In/Sec	.372 G-s
MIH - Motor Inboard Horizontal	.084 In/Sec	.434 G-s
MIP - Motor Inboard Horz Peakvue	.037 G-s	
MIV - Motor Inboard Vertical	.111 In/Sec	.189 G-s
MIA - Motor Inboard Axial	.087 In/Sec	.186 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.074 In/Sec	.706 G-s
PIP - Pump Inboard Horz Peakvue	.265 G-s	
PIV - Pump Inboard Vertical	.141 In/Sec	.399 G-s
PIA - Pump Inboard Axial	.144 In/Sec	.260 G-s
POH - Pump Outboard Horizontal	.058 In/Sec	.424 G-s
POP - Pump Outboard Horz Peakvue	.092 G-s	
POV - Pump Outboard Vertical	.130 In/Sec	.331 G-s
POA - Pump Outboard Axial	.142 In/Sec	.212 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
Abbreviated Last Measurement Summary

Database: Lucite Memphis MMA.rbm
Area: MMA
Route No. 7: TJ ROUTE 2
Report Date: 18-Mar-20 15:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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MON80 - Uninhibited Mon Tank Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.059 In/Sec	.198 G-s
MOP - Motor Outboard Horz Peakvue	.014 G-s	
MOV - MotorOutboard Vertical	.058 In/Sec	.370 G-s
MOA - Motor Outboard Axial	.301 In/Sec	.288 G-s
MIH - Motor Inboard Horizontal	.084 In/Sec	.199 G-s
MIP - Motor Inboard Horz Peakvue	.036 G-s	
MIV - Motor Inboard Vertical	.309 In/Sec	.037 G-s
MIA - Motor Inboard Axial	.278 In/Sec	.067 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.104 In/Sec	.100 G-s
PIP - Pump Inboard Horz Peakvue	.0087 G-s	
PIV - Pump Inboard Vertical	.063 In/Sec	.054 G-s

PIA - Pump Inboard Axial	.048 In/Sec	.065 G-s
MON81 - Uninhibited Mon Tank Pump S (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.044 In/Sec	.130 G-s
MOP - Motor Outboard Horz Peakvue	.0069 G-s	
MOV - MotorOutboard Vertical	.040 In/Sec	.053 G-s
MOA - Motor Outboard Axial	.014 In/Sec	.035 G-s
MIH - Motor Inboard Horizontal	.050 In/Sec	.276 G-s
MIP - Motor Inboard Horz Peakvue	.014 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.062 G-s
MIA - Motor Inboard Axial	.026 In/Sec	.043 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.139 In/Sec	.776 G-s
PIP - Pump Inboard Horz Peakvue	.161 G-s	
PIV - Pump Inboard Vertical	.095 In/Sec	.347 G-s
PIA - Pump Inboard Axial	.121 In/Sec	.227 G-s
MON56 - Inhibited Mon Xfer Pump E (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.072 In/Sec	.234 G-s
MOP - Motor Outboard Horz Peakvue	.038 G-s	
MOV - Motor Outboard Vertical	.074 In/Sec	.143 G-s
MOA - Motor Outboard Axial	.115 In/Sec	.120 G-s
MIH - Motor Inboard Horizontal	.099 In/Sec	.328 G-s
MIP - Motor Inboard Horz Peakvue	.084 G-s	
MIV - Motor Inboard Vertical	.073 In/Sec	.120 G-s
MIA - Motor Inboard Axial	.120 In/Sec	.070 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.300 In/Sec	.791 G-s
PIP - Pump Inboard Horz Peakvue	.110 G-s	
PIV - Pump Inboard Vertical	.204 In/Sec	.388 G-s
PIA - Pump Inboard Axial	.353 In/Sec	.265 G-s
MON40 - Acetone Pump (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.108 In/Sec	.342 G-s
MOP - Motor Outboard Horz Peakvue	.031 G-s	
MOV - Motor Outboard Vertical	.109 In/Sec	.148 G-s
MOA - Motor Outboard Axial	.066 In/Sec	.179 G-s
MIH - Motor Inboard Horizontal	.025 In/Sec	.849 G-s
MIP - Motor Inboard Horz Peakvue	.125 G-s	
MIV - Motor Inboard Vertical	.035 In/Sec	.128 G-s
MIA - Motor Inboard Axial	.017 In/Sec	.111 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.110 In/Sec	.749 G-s
PIP - Pump Inboard Horz Peakvue	.158 G-s	
PIV - Pump Inboard Vertical	.086 In/Sec	.580 G-s
PIA - Pump Inboard Axial	.060 In/Sec	.428 G-s
ACN08 - ACH Blend Tank (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.073 In/Sec	.217 G-s
MOP - Motor Outboard Horz Peakvue	.015 G-s	
MOV - Motor Outboard Vertical	.171 In/Sec	.103 G-s
MOA - Motor Outboard Axial	.123 In/Sec	.096 G-s
MIH - Motor Inboard Horizontal	.031 In/Sec	.359 G-s

MIP - Motor Inboard Horz Peakvue	.045 G-s	
MIV - Motor Inboard Vertical	.167 In/Sec	.153 G-s
MIA - Motor Inboard Axial	.104 In/Sec	.084 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.084 In/Sec	.474 G-s
PIP - Pump Inboard Horz Peakvue	.188 G-s	
PIV - Pump Inboard Vertical	.048 In/Sec	.116 G-s
PIA - Pump Inboard Axial	.080 In/Sec	.119 G-s
ACN07A - ACH Prod Feed Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.126 In/Sec	.206 G-s
MOP - Motor Outboard Horz Peakvue	.042 G-s	
MOV - Motor Outboard Vertical	.076 In/Sec	.068 G-s
MOA - Motor Outboard Axial	.050 In/Sec	.069 G-s
MIH - Motor Inboard Horizontal	.028 In/Sec	.206 G-s
MIP - Motor Inboard Horz Peakvue	.098 G-s	
MIV - Motor Inboard Vertical	.030 In/Sec	.036 G-s
MIA - Motor Inboard Axial	.029 In/Sec	.046 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.054 In/Sec	.278 G-s
PIP - Pump Inboard Horz Peakvue	.062 G-s	
PIV - Pump Inboard Vertical	.029 In/Sec	.120 G-s
PIA - Pump Inboard Axial	.044 In/Sec	.139 G-s
ACN07B - ACH Prod Feed Pump M	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.092 In/Sec	1.087 G-s
MOP - Motor Outboard Horz Peakvue	.311 G-s	
MOV - Motor Outboard Vertical	.060 In/Sec	.275 G-s
MOA - Motor Outboard Axial	.048 In/Sec	.322 G-s
MIH - Motor Inboard Horizontal	.090 In/Sec	1.467 G-s
MIP - Motor Inboard Horz Peakvue	.651 G-s	
MIV - Motor Inboard Vertical	.056 In/Sec	.446 G-s
MIA - Motor Inboard Axial	.053 In/Sec	.463 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.147 In/Sec	1.404 G-s
PIP - Pump Inboard Horz Peakvue	.349 G-s	
PIV - Pump Inboard Vertical	.159 In/Sec	.629 G-s
PIA - Pump Inboard Axial	.225 In/Sec	.548 G-s
MON85E - Water Treatment Pmp E	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.150 In/Sec	.542 G-s
MOP - Motor Outboard Horz Peakvue	.323 G-s	
MOV - Motor Outboard Vertical	.083 In/Sec	.291 G-s
MOA - Motor Outboard Axial	.087 In/Sec	.239 G-s
MIH - Motor Inboard Horizontal	.139 In/Sec	.179 G-s
MIP - Motor Inboard Horz Peakvue	.034 G-s	
MIV - Motor Inboard Vertical	.173 In/Sec	.048 G-s
MIA - Motor Inboard Axial	.114 In/Sec	.026 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.200 In/Sec	.633 G-s
PIP - Pump Inboard Horz Peakvue	.367 G-s	
PIV - Pump Inboard Vertical	.117 In/Sec	.358 G-s
PIA - Pump Inboard Axial	.122 In/Sec	.317 G-s

MON85W	- Water Treatment Pmp W	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.106 In/Sec	.459 G-s
MOP - Motor Outboard Horz Peakvue		.168 G-s	
MOV - Motor Outboard Vertical		.167 In/Sec	.111 G-s
MOA - Motor Outboard Axial		.126 In/Sec	.080 G-s
MIH - Motor Inboard Horizontal		.110 In/Sec	.374 G-s
MIP - Motor Inboard Horz Peakvue		.234 G-s	
MIV - Motor Inboard Vertical		.135 In/Sec	.320 G-s
MIA - Motor Inboard Axial		.120 In/Sec	.118 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.141 In/Sec	.582 G-s
PIP - Pump Inboard Horz Peakvue		.375 G-s	
PIV - Pump Inboard Vertical		.130 In/Sec	.235 G-s
PIA - Pump Inboard Axial		.103 In/Sec	.224 G-s
ACN28B	- ACN Fan E	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.243 In/Sec	.881 G-s
MOP - Motor Outboard Horz Peakvue		.246 G-s	
MOV - Motor Outboard Vertical		.188 In/Sec	.464 G-s
MOA - Motor Outboard Axial		.136 In/Sec	.164 G-s
MIH - Motor Inboard Horizontal		.305 In/Sec	.994 G-s
MIP - Motor Inboard Horz Peakvue		.375 G-s	
MIV - Motor Inboard Vertical		.386 In/Sec	.195 G-s
MIA - Motor Inboard Axial		.160 In/Sec	.183 G-s
ACN28A	- ACN Fan W	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.132 In/Sec	.500 G-s
MOP - Motor Outboard Horz Peakvue		.178 G-s	
MOV - Motor Outboard Vertical		.190 In/Sec	.416 G-s
MOA - Motor Outboard Axial		.204 In/Sec	.262 G-s
MIH - Motor Inboard Horizontal		.212 In/Sec	1.533 G-s
MIP - Motor Inboard Horz Peakvue		.355 G-s	
MIV - Motor Inboard Vertical		.145 In/Sec	.643 G-s
MIA - Motor Inboard Axial		.171 In/Sec	.194 G-s
ACN29C	- ACN Cool Twr Pump S	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.048 In/Sec	.474 G-s
MOP - Motor Outboard Horz Peakvue		.190 G-s	
MOV - Motor Outboard Vertical		.103 In/Sec	.219 G-s
MOA - Motor Outboard Axial		.036 In/Sec	.328 G-s
MIH - Motor Inboard Horizontal		.045 In/Sec	.534 G-s
MIP - Motor Inboard Horz Peakvue		.238 G-s	
MIV - Motor Inboard Vertical		.078 In/Sec	.243 G-s
MIA - Motor Inboard Axial		.037 In/Sec	.364 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.145 In/Sec	1.202 G-s
PIP - Pump Inboard Horz Peakvue		.582 G-s	
PIV - Pump Inboard Vertical		.097 In/Sec	1.215 G-s
PIA - Pump Inboard Axial		.126 In/Sec	1.759 G-s
POH - Pump Outboard Horizontal		.119 In/Sec	2.298 G-s
POP - Pump Outboard Horz Peakvue		.540 G-s	
POV - Pump Outboard Vertical		.090 In/Sec	.526 G-s
POA - Pump Outboard Axial		.154 In/Sec	.281 G-s

ACN29B	- ACN Cool Twr Pump M	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.043 In/Sec	1.129 G-s
MOP - Motor Outboard Horz Peakvue		.615 G-s	
MOV - Motor Outboard Vertical		.043 In/Sec	.239 G-s
MOA - Motor Outboard Axial		.045 In/Sec	.207 G-s
MIH - Motor Inboard Horizontal		.047 In/Sec	3.721 G-s
MIP - Motor Inboard Horz Peakvue		.918 G-s	
MIV - Motor Inboard Vertical		.054 In/Sec	.503 G-s
MIA - Motor Inboard Axial		.040 In/Sec	.370 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.161 In/Sec	.666 G-s
PIP - Pump Inboard Horz Peakvue		.441 G-s	
PIV - Pump Inboard Vertical		.088 In/Sec	.295 G-s
PIA - Pump Inboard Axial		.106 In/Sec	.263 G-s
POH - Pump Outboard Horizontal		.087 In/Sec	1.121 G-s
POP - Pump Outboard Horz Peakvue		.798 G-s	
POV - Pump Outboard Vertical		.074 In/Sec	.335 G-s
POA - Pump Outboard Axial		.103 In/Sec	.315 G-s
ACN29A	- ACN Cool Twr Pump N	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.066 In/Sec	.949 G-s
MOP - Motor Outboard Horz Peakvue		.173 G-s	
MOV - Motor Outboard Vertical		.071 In/Sec	.774 G-s
MOA - Motor Outboard Axial		.045 In/Sec	.416 G-s
MIH - Motor Inboard Horizontal		.068 In/Sec	1.064 G-s
MIP - Motor Inboard Horz Peakvue		.257 G-s	
MIV - Motor Inboard Vertical		.070 In/Sec	.472 G-s
MIA - Motor Inboard Axial		.102 In/Sec	.308 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.203 In/Sec	.287 G-s
PIP - Pump Inboard Horz Peakvue		.174 G-s	
PIV - Pump Inboard Vertical		.146 In/Sec	.148 G-s
PIA - Pump Inboard Axial		.142 In/Sec	.165 G-s
POH - Pump Outboard Horizontal		.096 In/Sec	1.293 G-s
POP - Pump Outboard Horz Peakvue		.926 G-s	
POV - Pump Outboard Vertical		.075 In/Sec	.345 G-s
POA - Pump Outboard Axial		.131 In/Sec	.288 G-s
ACN36	- ACH Neut Tank Circ Pmp	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MIH - Motor Inboard Horizontal		.077 In/Sec	.720 G-s
MIP - Motor Inboard Horz Peakvue		.168 G-s	
MIV - Motor Inboard Vertical		.107 In/Sec	.131 G-s
MIA - Motor Inboard Axial		.076 In/Sec	.166 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.360 In/Sec	.181 G-s
PIP - Pump Inboard Horz Peakvue		.053 G-s	
PIV - Pump Inboard Vertical		.147 In/Sec	.159 G-s
PIA - Pump Inboard Axial		.413 In/Sec	.240 G-s
ACN12	- #1 Kettle Xfer Pump	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.102 In/Sec	.534 G-s
MOP - Motor Outboard Horz Peakvue		.063 G-s	

MOV - Motor Outboard Vertical	.095 In/Sec	.155 G-s
MOA - Motor Outboard Axial	.109 In/Sec	.261 G-s
MIH - Motor Inboard Horizontal	.082 In/Sec	1.030 G-s
MIP - Motor Inboard Horz Peakvue	.254 G-s	
MIV - Motor Inboard Vertical	.067 In/Sec	.297 G-s
MIA - Motor Inboard Axial	.059 In/Sec	.215 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.045 In/Sec	.078 G-s
PIP - Pump Inboard Horz Peakvue	.0075 G-s	
PIV - Pump Inboard Vertical	.238 In/Sec	.184 G-s
PIA - Pump Inboard Axial	.056 In/Sec	.114 G-s
ACN10 - #1 Kettle Circ Pmp	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.020 In/Sec	.415 G-s
MOP - Motor Outboard Horz Peakvue	.219 G-s	
MOV - Motor Outboard Vertical	.032 In/Sec	.131 G-s
MOA - Motor Outboard Axial	.023 In/Sec	.125 G-s
MIH - Motor Inboard Horizontal	.027 In/Sec	.576 G-s
MIP - Motor Inboard Horz Peakvue	.236 G-s	
MIV - Motor Inboard Vertical	.026 In/Sec	.183 G-s
MIA - Motor Inboard Axial	.022 In/Sec	.151 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.040 In/Sec	.197 G-s
PIP - Pump Inboard Horz Peakvue	.134 G-s	
PIV - Pump Inboard Vertical	.043 In/Sec	.073 G-s
PIA - Pump Inboard Axial	.031 In/Sec	.086 G-s
ACN13B - #2 Kettle Xfer Pump S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.050 In/Sec	1.270 G-s
MOP - Motor Outboard Horz Peakvue	.106 G-s	
MOV - Motor Outboard Vertical	.075 In/Sec	.314 G-s
MOA - Motor Outboard Axial	.083 In/Sec	.206 G-s
MIH - Motor Inboard Horizontal	.104 In/Sec	3.642 G-s
MIP - Motor Inboard Horz Peakvue	.721 G-s	
MIV - Motor Inboard Vertical	.068 In/Sec	.560 G-s
MIA - Motor Inboard Axial	.071 In/Sec	1.097 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.047 In/Sec	.623 G-s
PIP - Pump Inboard Horz Peakvue	.227 G-s	
PIV - Pump Inboard Vertical	.062 In/Sec	.108 G-s
PIA - Pump Inboard Axial	.049 In/Sec	.132 G-s
ACN11 - #2 Kettle Circ Pump	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.020 In/Sec	.633 G-s
MOP - Motor Outboard Horz Peakvue	.317 G-s	
MOV - Motor Outboard Vertical	.048 In/Sec	.351 G-s
MOA - Motor Outboard Axial	.041 In/Sec	.396 G-s
MIH - Motor Inboard Horizontal	.022 In/Sec	.792 G-s
MIP - Motor Inboard Horz Peakvue	.500 G-s	
MIV - Motor Inboard Vertical	.044 In/Sec	.107 G-s
MIA - Motor Inboard Axial	.036 In/Sec	.222 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.038 In/Sec	.166 G-s
PIP - Pump Inboard Horz Peakvue	.091 G-s	

PIV - Pump Inboard Vertical	.041 In/Sec	.138 G-s
PIA - Pump Inboard Axial	.027 In/Sec	.121 G-s
ACN09 - ACH Flash Tank Pump	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.117 In/Sec	1.052 G-s
MOP - Motor Outboard Horz Peakvue	.087 G-s	
MOV - Motor Outboard Vertical	.106 In/Sec	.344 G-s
MOA - Motor Outboard Axial	.085 In/Sec	.237 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.113 In/Sec	.456 G-s
PIP - Pump Inboard Horz Peakvue	.131 G-s	
PIV - Pump Inboard Vertical	.104 In/Sec	.425 G-s
PIA - Pump Inboard Axial	.076 In/Sec	.181 G-s
ACN23 - ACH Scrub Circ Pump S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.031 In/Sec	.423 G-s
MOP - Motor Outboard Horz Peakvue	.248 G-s	
MOV - Motor Outboard Vertical	.039 In/Sec	.144 G-s
MOA - Motor Outboard Axial	.031 In/Sec	.244 G-s
MIH - Motor Inboard Horizontal	.022 In/Sec	.533 G-s
MIP - Motor Inboard Horz Peakvue	.302 G-s	
MIV - Motor Inboard Vertical	.041 In/Sec	.301 G-s
MIA - Motor Inboard Axial	.058 In/Sec	.218 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.106 In/Sec	.301 G-s
PIP - Pump Inboard Horz Peakvue	.211 G-s	
PIV - Pump Inboard Vertical	.074 In/Sec	.184 G-s
PIA - Pump Inboard Axial	.052 In/Sec	.158 G-s
ACN16 - ACH Scrub Circ PumpN	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.057 In/Sec	.0015 G-s
MOV - Motor Outboard Vertical	.029 In/Sec	.0073 G-s
MOA - Motor Outboard Axial	.048 In/Sec	.0014 G-s
MIH - Motor Inboard Horizontal	.053 In/Sec	.0025 G-s
MIP - Motor Inboard Horz Peakvue	.0011 G-s	
MIV - Motor Inboard Vertical	.048 In/Sec	.0030 G-s
MIA - Motor Inboard Axial	.037 In/Sec	.0018 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.051 In/Sec	.0018 G-s
PIP - Pump Inboard Horz Peakvue	.0010 G-s	
PIV - Pump Inboard Vertical	.050 In/Sec	.0071 G-s
PIA - Pump Inboard Axial	.045 In/Sec	.0035 G-s
ACN30 - ACH Scrubber Xfer Pmp	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.029 In/Sec	.276 G-s
MOP - Motor Outboard Horz Peakvue	.153 G-s	
MOV - Motor Outboard Vertical	.051 In/Sec	.210 G-s
MOA - Motor Outboard Axial	.078 In/Sec	.114 G-s
MIH - Motor Inboard Horizontal	.031 In/Sec	.449 G-s
MIP - Motor Inboard Horz Peakvue	.268 G-s	
MIV - Motor Inboard Vertical	.049 In/Sec	.176 G-s
MIA - Motor Inboard Axial	.069 In/Sec	.195 G-s
	OVERALL LEVEL	1K-20KHz

PIH - Pump Inboard Horizontal	.041 In/Sec	.079 G-s
PIP - Pump Inboard Horz Peakvue	.037 G-s	
PIV - Pump Inboard Vertical	.054 In/Sec	.044 G-s
PIA - Pump Inboard Axial	.048 In/Sec	.049 G-s

ACN05A - Topp Column Xfer Pmp W	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.083 In/Sec	.477 G-s
MOP - Motor Outboard Horz Peakvue	.125 G-s	
MOV - Motor Outboard Vertical	.053 In/Sec	.182 G-s
MOA - Motor Outboard Axial	.121 In/Sec	.087 G-s
MIH - Motor Inboard Horizontal	.049 In/Sec	.531 G-s
MIP - Motor Inboard Horz Peakvue	.180 G-s	
MIV - Motor Inboard Vertical	.038 In/Sec	.109 G-s
MIA - Motor Inboard Axial	.069 In/Sec	.111 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.207 In/Sec	.419 G-s
PIP - Pump Inboard Horz Peakvue	.076 G-s	
PIV - Pump Inboard Vertical	.106 In/Sec	.291 G-s
PIA - Pump Inboard Axial	.095 In/Sec	.294 G-s

ACN04 - Topping Col Circ Pump	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.033 In/Sec	.205 G-s
MOP - Motor Outboard Horz Peakvue	.127 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.056 G-s
MOA - Motor Outboard Axial	.026 In/Sec	.079 G-s
MIH - Motor Inboard Horizontal	.026 In/Sec	.412 G-s
MIP - Motor Inboard Horz Peakvue	.297 G-s	
MIV - Motor Inboard Vertical	.027 In/Sec	.088 G-s
MIA - Motor Inboard Axial	.027 In/Sec	.053 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.094 In/Sec	.348 G-s
PIP - Pump Inboard Horz Peakvue	.197 G-s	
PIV - Pump Inboard Vertical	.045 In/Sec	.134 G-s
PIA - Pump Inboard Axial	.047 In/Sec	.136 G-s
POH - Pump Outboard Horizontal	.048 In/Sec	.422 G-s
POP - Pump Outboard Horz Peakvue	.269 G-s	
POV - Pump Outboard Vertical	.068 In/Sec	.174 G-s
POA - Pump Outboard Axial	.043 In/Sec	.129 G-s

MON38CNM - LBS Tails Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.051 In/Sec	.529 G-s
MOP - Motor Outboard Horz Peakvue	.109 G-s	
MOV - Motor Outboard Vertical	.092 In/Sec	.235 G-s
MOA - Motor Outboard Axial	.051 In/Sec	.190 G-s
MIH - Motor Inboard Horizontal	.054 In/Sec	.671 G-s
MIP - Motor Inboard Horz Peakvue	.113 G-s	
MIV - Motor Inboard Vertical	.063 In/Sec	.185 G-s
MIA - Motor Inboard Axial	.049 In/Sec	.151 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.097 In/Sec	.859 G-s
PIP - Pump Inboard Horz Peakvue	.163 G-s	
PIV - Pump Inboard Vertical	.077 In/Sec	.311 G-s
PIA - Pump Inboard Axial	.066 In/Sec	.340 G-s

MON38CSM	- LBS Tails Pump S	(17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.036 In/Sec	.281 G-s
MOP - Motor Outboard Horz Peakvue		.054 G-s	
MOV - Motor Outboard Vertical		.040 In/Sec	.083 G-s
MOA - Motor Outboard Axial		.031 In/Sec	.133 G-s
MIH - Motor Inboard Horizontal		.044 In/Sec	.557 G-s
MIP - Motor Inboard Horz Peakvue		.073 G-s	
MIV - Motor Inboard Vertical		.035 In/Sec	.098 G-s
MIA - Motor Inboard Axial		.026 In/Sec	.117 G-s
		OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal		.093 In/Sec	.299 G-s
PIP - Pump Inboard Horz Peakvue		.101 G-s	
PIV - Pump Inboard Vertical		.064 In/Sec	.213 G-s
PIA - Pump Inboard Axial		.053 In/Sec	.156 G-s
 MON 63W	 - LBS Side Stream Pump W	 (17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.215 In/Sec	.891 G-s
M1P - Motor Outboard Horz Peakvue		.029 G-s	
M1V - Motor Outboard Vertical		.123 In/Sec	.406 G-s
M1A - Motor Outboard Axial		.109 In/Sec	.590 G-s
M2H - Motor Inboard Horizontal		.066 In/Sec	.916 G-s
M2P - Motor Inboard Horz Peakvue		.038 G-s	
M2V - Motor Inboard Vertical		.125 In/Sec	.268 G-s
M2A - Motor Inboard Axial		.099 In/Sec	.417 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.207 In/Sec	.530 G-s
P1P - Pump Inboard Horz Peakvue		.200 G-s	
P1V - Pump Inboard Vertical		.087 In/Sec	.670 G-s
P1A - Pump Inboard Axial		.170 In/Sec	.311 G-s
 MON 63E	 - LBS Side Stream Pump E	 (17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal		.194 In/Sec	1.156 G-s
M1P - Motor Outboard Horz Peakvue		.029 G-s	
M1V - Motor Outboard Vertical		.152 In/Sec	.241 G-s
M1A - Motor Outboard Axial		.122 In/Sec	.320 G-s
M2H - Motor Inboard Horizontal		.119 In/Sec	.803 G-s
M2P - Motor Inboard Horz Peakvue		.029 G-s	
M2V - Motor Inboard Vertical		.186 In/Sec	.296 G-s
M2A - Motor Inboard Axial		.108 In/Sec	.334 G-s
		OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal		.285 In/Sec	.668 G-s
P1P - Pump Inboard Horz Peakvue		.025 G-s	
P1V - Pump Inboard Vertical		.121 In/Sec	.291 G-s
P1A - Pump Inboard Axial		.241 In/Sec	.258 G-s
 MON132	 - Decanter Feed Pmp Spare	 (17-Mar-20)	
		OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal		.394 In/Sec	.438 G-s
MOP - Motor Outboard Horz Peakvue		.023 G-s	
MOV - Motor Outboard Vertical		.382 In/Sec	.115 G-s
MOA - Motor Outboard Axial		.294 In/Sec	.135 G-s
MIH - Motor Inboard Horizontal		.192 In/Sec	.378 G-s
MIP - Motor Inboard Horz Peakvue		.035 G-s	
MIV - Motor Inboard Vertical		.433 In/Sec	.127 G-s

MIA - Motor Inboard Axial	.100 In/Sec	.156 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.218 In/Sec	.302 G-s
PIP - Pump Inboard Horz Peakvue	.059 G-s	
PIV - Pump Inboard Vertical	.446 In/Sec	.161 G-s
PIA - Pump Inboard Axial	.152 In/Sec	.124 G-s
MON 51 - WCM Tails Swing/Spare Pmp	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
M1H - Motor Outboard Horizontal	.062 In/Sec	.786 G-s
M1P - Motor Outboard Horz Peakvue	.016 G-s	
M1V - Motor Outboard Vertical	.040 In/Sec	.167 G-s
M1A - Motor Outboard Axial	.037 In/Sec	.319 G-s
M2H - Motor Inboard Horizontal	.084 In/Sec	1.325 G-s
M2P - Motor Inboard Horz Peakvue	.244 G-s	
M2V - Motor Inboard Vertical	.052 In/Sec	.340 G-s
M2A - Motor Inboard Axial	.025 In/Sec	.336 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.091 In/Sec	.147 G-s
P1P - Pump Inboard Horz Peakvue	.011 G-s	
P1V - Pump Inboard Vertical	.069 In/Sec	.120 G-s
P1A - Pump Inboard Axial	.051 In/Sec	.140 G-s
MON38A - LBS Reflux Pmp S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.045 In/Sec	.391 G-s
MOP - Motor Outboard Horz Peakvue	.159 G-s	
MOV - Motor Outboard Vertical	.030 In/Sec	.107 G-s
MOA - Motor Outboard Axial	.038 In/Sec	.069 G-s
MIH - Motor Inboard Horizontal	.032 In/Sec	.333 G-s
MIP - Motor Inboard Horz Peakvue	.040 G-s	
MIV - Motor Inboard Vertical	.068 In/Sec	.046 G-s
MIA - Motor Inboard Axial	.044 In/Sec	.040 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.047 In/Sec	.692 G-s
PIP - Pump Inboard Horz Peakvue	.072 G-s	
PIV - Pump Inboard Vertical	.054 In/Sec	.232 G-s
PIA - Pump Inboard Axial	.060 In/Sec	.263 G-s
MON38B - LBS Reflux Pmp N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.076 In/Sec	.442 G-s
MOP - Motor Outboard Horz Peakvue	.071 G-s	
MOV - Motor Outboard Vertical	.097 In/Sec	.102 G-s
MOA - Motor Outboard Axial	.042 In/Sec	.101 G-s
MIH - Motor Inboard Horizontal	.041 In/Sec	.407 G-s
MIP - Motor Inboard Horz Peakvue	.144 G-s	
MIV - Motor Inboard Vertical	.078 In/Sec	.083 G-s
MIA - Motor Inboard Axial	.037 In/Sec	.091 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.098 In/Sec	.792 G-s
PIP - Pump Inboard Horz Peakvue	.090 G-s	
PIV - Pump Inboard Vertical	.100 In/Sec	.351 G-s
PIA - Pump Inboard Axial	.086 In/Sec	.293 G-s
MON 32B - ARC Reflux Pmp S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz

M1H - Motor Outboard Horizontal	.049 In/Sec	.206 G-s
M1P - Motor Outboard Horz Peakvue	.032 G-s	
M1V - Motor Outboard Vertical	.083 In/Sec	.112 G-s
M1A - Motor Outboard Axial	.086 In/Sec	.063 G-s
M2H - Motor Inboard Horizontal	.048 In/Sec	.313 G-s
M2P - Motor Inboard Horz Peakvue	.045 G-s	
M2V - Motor Inboard Vertical	.131 In/Sec	.068 G-s
M2A - Motor Inboard Axial	.095 In/Sec	.056 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.173 In/Sec	.681 G-s
P1P - Pump Inboard Horz Peakvue	.026 G-s	
P1V - Pump Inboard Vertical	.201 In/Sec	.216 G-s
P1A - Pump Inboard Axial	.165 In/Sec	.336 G-s
P2H - Pump Outboard Horizontal	.118 In/Sec	.370 G-s
P2P - Pump Outboard Horz Peakvue	.113 G-s	
P2V - Pump Outboard Vertical	.188 In/Sec	.418 G-s
P2A - Pump Outboard Axial	.108 In/Sec	.289 G-s
MON 32A - ARC Reflux Pmp N (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
M1V - Motor Outboard Vertical	.150 In/Sec	.262 G-s
M1A - Motor Outboard Axial	.072 In/Sec	.100 G-s
M2H - Motor Inboard Horizontal	.050 In/Sec	.473 G-s
M2P - Motor Inboard Horz Peakvue	.052 G-s	
M2V - Motor Inboard Vertical	.068 In/Sec	.164 G-s
M2A - Motor Inboard Axial	.073 In/Sec	.212 G-s
	OVERALL LEVEL	1K-20KHz
P1H - Pump Inboard Horizontal	.069 In/Sec	.479 G-s
P1P - Pump Inboard Horz Peakvue	.032 G-s	
P1V - Pump Inboard Vertical	.175 In/Sec	.198 G-s
P1A - Pump Inboard Axial	.098 In/Sec	.232 G-s
P2H - Pump Outboard Horizontal	.093 In/Sec	.467 G-s
P2P - Pump Outboard Horz Peakvue	.065 G-s	
MON118 - Tempered H2O Pmp (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.094 In/Sec	.128 G-s
MOP - Motor Outboard Horz Peakvue	.058 G-s	
MOV - Motor Outboard Vertical	.028 In/Sec	.081 G-s
MOA - Motor Outboard Axial	.075 In/Sec	.039 G-s
MIH - Motor Inboard Horizontal	.088 In/Sec	.140 G-s
MIP - Motor Inboard Horz Peakvue	.074 G-s	
MIV - Motor Inboard Vertical	.025 In/Sec	.086 G-s
MIA - Motor Inboard Axial	.062 In/Sec	.052 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.059 In/Sec	.033 G-s
PIP - Pump Inboard Horz Peakvue	.017 G-s	
PIV - Pump Inboard Vertical	.031 In/Sec	.050 G-s
PIA - Pump Inboard Axial	.039 In/Sec	.042 G-s
POH - Pump Outboard Horizontal	.047 In/Sec	.036 G-s
POP - Pump Outboard Horz Peakvue	.018 G-s	
POV - Pump Outboard Vertical	.031 In/Sec	.042 G-s
POA - Pump Outboard Axial	.042 In/Sec	.022 G-s
MON55MM - HUT Pump Mid (17-Mar-20)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.054 In/Sec	2.120 G-s

MOP - Motor Outboard Horz Peakvue	1.201 G-s	
MOV - Motor Outboard Vertical	.064 In/Sec	.568 G-s
MOA - Motor Outboard Axial	.071 In/Sec	.677 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	2.919 G-s
MIP - Motor Inboard Horz Peakvue	1.775 G-s	
MIV - Motor Inboard Vertical	.073 In/Sec	.908 G-s
MIA - Motor Inboard Axial	.074 In/Sec	.600 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.160 In/Sec	.297 G-s
PIP - Pump Inboard Horz Peakvue	.277 G-s	
PIV - Pump Inboard Vertical	.069 In/Sec	.138 G-s
PIA - Pump Inboard Axial	.091 In/Sec	.131 G-s
POH - Pump Outboard Horizontal	.161 In/Sec	.424 G-s
POP - Pump Outboard Horz Peakvue	.306 G-s	
POV - Pump Outboard Vertical	.041 In/Sec	.158 G-s
POA - Pump Outboard Axial	.090 In/Sec	.201 G-s
MON67NM - PTZ Xfer Pump N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.072 In/Sec	.206 G-s
MOP - Motor Outboard Horz Peakvue	.041 G-s	
MOV - Motor Outboard Vertical	.061 In/Sec	.082 G-s
MOA - Motor Outboard Axial	.079 In/Sec	.087 G-s
MIH - Motor Inboard Horizontal	.093 In/Sec	.348 G-s
MIP - Motor Inboard Horz Peakvue	.061 G-s	
MIV - Motor Inboard Vertical	.092 In/Sec	.139 G-s
MIA - Motor Inboard Axial	.072 In/Sec	.106 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.108 In/Sec	.764 G-s
PIP - Pump Inboard Horz Peakvue	.111 G-s	
PIV - Pump Inboard Vertical	.060 In/Sec	.351 G-s
PIA - Pump Inboard Axial	.068 In/Sec	.415 G-s
MON68A - #1 Reactor H2O Circ Pump	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.152 In/Sec	.401 G-s
MOP - Motor Outboard Horz Peakvue	.167 G-s	
MOV - Motor Outboard Vertical	.078 In/Sec	.251 G-s
MOA - Motor Outboard Axial	.123 In/Sec	.067 G-s
MIH - Motor Inboard Horizontal	.120 In/Sec	.356 G-s
MIP - Motor Inboard Horz Peakvue	.098 G-s	
MIV - Motor Inboard Vertical	.083 In/Sec	.189 G-s
MIA - Motor Inboard Axial	.095 In/Sec	.081 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.084 In/Sec	.184 G-s
PIP - Pump Inboard Horz Peakvue	.097 G-s	
PIV - Pump Inboard Vertical	.050 In/Sec	.198 G-s
PIA - Pump Inboard Axial	.095 In/Sec	.170 G-s
MON43A - Amide Reactor Circ Pmp #1N	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.070 In/Sec	.323 G-s
MOP - Motor Outboard Horz Peakvue	.029 G-s	
MOV - Motor Outboard Vertical	.093 In/Sec	.155 G-s
MOA - Motor Outboard Axial	.110 In/Sec	.053 G-s
MIH - Motor Inboard Horizontal	.094 In/Sec	.516 G-s
MIP - Motor Inboard Horz Peakvue	.050 G-s	

MIV - Motor Inboard Vertical	.094 In/Sec	.267 G-s
MIA - Motor Inboard Axial	.114 In/Sec	.351 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.229 In/Sec	.415 G-s
PIP - Pump Inboard Horz Peakvue	.234 G-s	
PIV - Pump Inboard Vertical	.176 In/Sec	.182 G-s
PIA - Pump Inboard Axial	.177 In/Sec	.172 G-s
MON43B - Amide Reactor Circ Pmp #2S	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.083 In/Sec	.149 G-s
MOP - Motor Outboard Horz Peakvue	.0093 G-s	
MOV - Motor Outboard Vertical	.081 In/Sec	.039 G-s
MOA - Motor Outboard Axial	.068 In/Sec	.031 G-s
MIH - Motor Inboard Horizontal	.081 In/Sec	.215 G-s
MIP - Motor Inboard Horz Peakvue	.073 G-s	
MIV - Motor Inboard Vertical	.148 In/Sec	.081 G-s
MIA - Motor Inboard Axial	.076 In/Sec	.057 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.230 In/Sec	.321 G-s
PIP - Pump Inboard Horz Peakvue	.181 G-s	
PIV - Pump Inboard Vertical	.188 In/Sec	.291 G-s
PIA - Pump Inboard Axial	.219 In/Sec	.127 G-s
MON65 - Amide Reactor Circ Primary	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.262 In/Sec	.299 G-s
MOP - Motor Outboard Horz Peakvue	.163 G-s	
MOV - Motor Outboard Vertical	.745 In/Sec	.126 G-s
MOA - Motor Outboard Axial	.162 In/Sec	.104 G-s
MIH - Motor Inboard Horizontal	.324 In/Sec	.627 G-s
MIP - Motor Inboard Horz Peakvue	.441 G-s	
MIV - Motor Inboard Vertical	.649 In/Sec	.113 G-s
MIA - Motor Inboard Axial	.160 In/Sec	.152 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.237 In/Sec	.461 G-s
PIP - Pump Inboard Horz Peakvue	.238 G-s	
PIV - Pump Inboard Vertical	.203 In/Sec	.098 G-s
PIA - Pump Inboard Axial	.067 In/Sec	.095 G-s
MON36 - Irganox Mix/Feed Pump	(17-Mar-20)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.075 In/Sec	.188 G-s
MOP - Motor Outboard Horz Peakvue	.071 G-s	
MOV - Motor Outboard Vertical	.034 In/Sec	.110 G-s
MOA - Motor Outboard Axial	.061 In/Sec	.124 G-s
IIH - Input Shaft Inboard Horizontal	.045 In/Sec	
IIP - Input Shaft Inboard Horz Peakvue	.267 G-s	
IIV - Input Shaft Inboard Vertical	.037 In/Sec	
IIA - Input Shaft Inboard Axial	.053 In/Sec	
	OVERALL LEVEL	1K-20KHz
POH - Pump Outboard Horizontal	.062 In/Sec	.418 G-s
POP - Pump Outboard Horz Peakvue	.349 G-s	
POV - Pump Outboard Vertical	.080 In/Sec	1.041 G-s
POA - Pump Outboard Axial	.091 In/Sec	.949 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK