



MILLINGTON, TN

October 22, 2019

AECI Dell Power

Subject: October vibration service

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

Cooling tower fan motors 7, 8, 9, and 10

The data shows the motor vibrations are up for most of these units in the axial measurement at near or above 0.45"/sec velocity peak overall. They have mostly increased after the tower rebuild. Inspect the unit for defects associated with the fan and drive train. Inspect the structure and fasteners. Have the alignments checked and reports prepared.

Rated a Class II Defect.

Circulating Water Pump 1

The pump unit is back up to vibrating at higher levels at the unit fundamental speed. Vibrations are somewhat directional which is typical for vertical pumps generally due to stiffness from piping. We still suspect something has damaged the pump or is stuck in it. Vibrations at these amplitudes are damaging to the unit. Inspect the unit at the first opportunity. **Rated a Class IV Defect.**

STG Hydraulic Pump 1 (Left unit)

Vibration data this month shows a large increase in pump passing harmonic vibrations. We could have caught the unit cycling; which will normally increase the amplitudes.

We recommend inspecting the unit for issues with mechanical, flow parameters, controls and filters.

Rated a Class III Defect.

Observations

Cooling Tower Fan Motors

Vibration data for most of the cooling tower fan motors show a rotor bar vibration; for which the amplitude is low and not a concern to the continued health of the motor at this time. No actions are warranted **Rated a Class I Defect.**

LP Recirculating Pump Unit 1

Unit data shows bearing defects are still present in the motor bearings. The motor will need to be changed at some time in the future. **Rated a Class II Defect.**

Vacuum Pump 1

The unit pump vibrations have risen to around 0.46"/sec velocity peak. This unit seems to be an issue when both pumps are running; allowing the pump to cavitate, which will cause undue wear in the unit.

Rated a Class II Defect.

STG Condensate Pump C

Data still shows a clean 3x RPM vibration modulating the shaft speed fundamental of about the same amplitude the 3x RPM vibration has not changed much recently. Ensure the pump is running near BOP. Inspect the pump coupling and shaft as time allows. **Rated a Class 1 Defect.**

Abbreviated Last Measurement Summary *****

Database: AECI Dell Power Plant.rbm
Area: Cooling Tower
Report Date: 22-Oct-19 09:29

MEASUREMENT POINT -----	OVERALL LEVEL -----	HFD / VHFD -----
CTW1 - Cooling Tower Fan 1 (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.194 In/Sec	1.541 G-s
MOP - Motor Outboard Horz Peakvue	.215 G-s	
MOV - Motor Outboard Vertical	.267 In/Sec	1.520 G-s
MIH - Motor Inboard Horizontal	.142 In/Sec	.375 G-s
MIP - Motor Inboard Horz Peakvue	.118 G-s	
MIV - Motor Inboard Vertical	.277 In/Sec	1.078 G-s
MIA - Motor Inboard Axial	.240 In/Sec	.362 G-s
CTW2 - Cooling Tower Fan 2 (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.286 In/Sec	1.215 G-s
MOP - Motor Outboard Horz Peakvue	.039 G-s	
MOV - Motor Outboard Vertical	.189 In/Sec	1.989 G-s
MIH - Motor Inboard Horizontal	.161 In/Sec	1.859 G-s
MIP - Motor Inboard Horz Peakvue	.449 G-s	
MIV - Motor Inboard Vertical	.154 In/Sec	1.240 G-s
MIA - Motor Inboard Axial	.228 In/Sec	1.302 G-s
CTW3 - Cooling Tower Fan 3 (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.291 In/Sec	2.611 G-s
MOP - Motor Outboard Horz Peakvue	.049 G-s	
MOV - Motor Outboard Vertical	.224 In/Sec	.631 G-s
MIH - Motor Inboard Horizontal	.143 In/Sec	.336 G-s
MIP - Motor Inboard Horz Peakvue	.268 G-s	
MIV - Motor Inboard Vertical	.225 In/Sec	.405 G-s
MIA - Motor Inboard Axial	.354 In/Sec	.196 G-s
CTW4 - Cooling Tower Fan 4 (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.210 In/Sec	2.126 G-s
MOP - Motor Outboard Horz Peakvue	.046 G-s	
MOV - Motor Outboard Vertical	.216 In/Sec	2.006 G-s

MIH - Motor Inboard Horizontal	.179 In/Sec	.505 G-s
MIP - Motor Inboard Horz Peakvue	.126 G-s	
MIV - Motor Inboard Vertical	.201 In/Sec	.863 G-s
MIA - Motor Inboard Axial	.252 In/Sec	1.324 G-s

CTW5 - Cooling Tower Fan 5 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.211 In/Sec	.801 G-s
MOP - Motor Outboard Horz Peakvue	.038 G-s	
MOV - Motor Outboard Vertical	.219 In/Sec	1.193 G-s
MIH - Motor Inboard Horizontal	.159 In/Sec	.680 G-s
MIP - Motor Inboard Horz Peakvue	.374 G-s	
MIV - Motor Inboard Vertical	.145 In/Sec	.877 G-s
MIA - Motor Inboard Axial	.319 In/Sec	.425 G-s

CTW6 - Cooling Tower Fan 6 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.358 In/Sec	3.563 G-s
MOP - Motor Outboard Horz Peakvue	.088 G-s	
MOV - Motor Outboard Vertical	.146 In/Sec	.768 G-s
MIH - Motor Inboard Horizontal	.174 In/Sec	.708 G-s
MIP - Motor Inboard Horz Peakvue	.315 G-s	
MIV - Motor Inboard Vertical	.216 In/Sec	1.384 G-s
MIA - Motor Inboard Axial	.294 In/Sec	.223 G-s

CTW7 - Cooling Tower Fan 7 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.186 In/Sec	1.307 G-s
MOP - Motor Outboard Horz Peakvue	.203 G-s	
MOV - Motor Outboard Vertical	.457 In/Sec	1.218 G-s
MIH - Motor Inboard Horizontal	.175 In/Sec	.537 G-s
MIP - Motor Inboard Horz Peakvue	.319 G-s	
MIV - Motor Inboard Vertical	.338 In/Sec	1.214 G-s
MIA - Motor Inboard Axial	.259 In/Sec	2.433 G-s

CTW8 - Cooling Tower Fan 8 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.312 In/Sec	1.673 G-s
MOP - Motor Outboard Horz Peakvue	.238 G-s	
MOV - Motor Outboard Vertical	.273 In/Sec	1.967 G-s
MIH - Motor Inboard Horizontal	.173 In/Sec	.635 G-s
MIP - Motor Inboard Horz Peakvue	.237 G-s	
MIV - Motor Inboard Vertical	.253 In/Sec	.554 G-s
MIA - Motor Inboard Axial	.447 In/Sec	.936 G-s

CTW9 - Cooling Tower Fan 9 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.555 In/Sec	4.725 G-s
MOP - Motor Outboard Horz Peakvue	.177 G-s	
MOV - Motor Outboard Vertical	.401 In/Sec	2.211 G-s
MIH - Motor Inboard Horizontal	.368 In/Sec	1.165 G-s
MIP - Motor Inboard Horz Peakvue	.345 G-s	
MIV - Motor Inboard Vertical	.347 In/Sec	1.878 G-s
MIA - Motor Inboard Axial	.494 In/Sec	2.001 G-s

CTW10 - Cooling Tower Fan 10 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
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MOH - Motor Outboard Horizontal	.323 In/Sec	1.420 G-s
MOP - Motor Outboard Horz Peakvue	.251 G-s	
MOV - Motor Outboard Vertical	.364 In/Sec	1.701 G-s
MIH - Motor Inboard Horizontal	.193 In/Sec	.293 G-s
MIP - Motor Inboard Horz Peakvue	.081 G-s	
MIV - Motor Inboard Vertical	.257 In/Sec	1.344 G-s
MIA - Motor Inboard Axial	.454 In/Sec	.430 G-s

CTW11 - Cooling Tower Fan 11 (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.216 In/Sec	1.124 G-s
MOP - Motor Outboard Horz Peakvue	.048 G-s	
MOV - Motor Outboard Vertical	.142 In/Sec	.994 G-s
MIH - Motor Inboard Horizontal	.170 In/Sec	.352 G-s
MIP - Motor Inboard Horz Peakvue	.043 G-s	
MIV - Motor Inboard Vertical	.198 In/Sec	2.567 G-s
MIA - Motor Inboard Axial	.146 In/Sec	.357 G-s

3CW-P-001 - Circ Water Pump 1A (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	1.058 In/Sec	.371 G-s
MOP - Motor Outboard Horz Peakvue	.261 G-s	
MOV - Motor Outboard Vertical	.779 In/Sec	.506 G-s
MIH - Motor Inboard Horizontal	.631 In/Sec	.269 G-s
MIP - Motor Inboard Horz Peakvue	.142 G-s	
MIV - Motor Inboard Vertical	.136 In/Sec	.211 G-s
MIA - Motor Inboard Axial	.090 In/Sec	.452 G-s
OVERALL LEVEL	1K-20KHz	
PIH - Pump Inboard Horizontal	.167 In/Sec	.455 G-s
PIP - Pump Inboard Horz Peakvue	.055 G-s	

3CW-P-002 - Circ Water Pump 1B (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.261 In/Sec	.289 G-s
MOP - Motor Outboard Horz Peakvue	.092 G-s	
MOV - Motor Outboard Vertical	.074 In/Sec	.268 G-s
MIH - Motor Inboard Horizontal	.146 In/Sec	.380 G-s
MIP - Motor Inboard Horz Peakvue	.201 G-s	
MIV - Motor Inboard Vertical	.049 In/Sec	.706 G-s
MIA - Motor Inboard Axial	.034 In/Sec	.439 G-s
OVERALL LEVEL	1K-20KHz	
PIH - Pump Inboard Horizontal	.027 In/Sec	.300 G-s
PIP - Pump Inboard Horz Peakvue	.014 G-s	

LFAA1 - LFAA 1A (17-Oct-19)

OVERALL LEVEL	1K-20kHz	
MOH - Motor Outboard Horizontal	.125 In/Sec	.415 G-s
MOP - Motor Outboard Horz Peakvue	.223 G-s	
MOV - Motor Outboard Vertical	.202 In/Sec	.381 G-s
MIH - Motor Inboard Horizontal	.062 In/Sec	.191 G-s
MIP - Motor Inboard Horz Peakvue	.098 G-s	
MIV - Motor Inboard Vertical	.094 In/Sec	.190 G-s
MIA - Motor Inboard Axial	.029 In/Sec	.181 G-s
OVERALL LEVEL	1K-20KHz	
PIH - Pump Inboard Horizontal	.014 In/Sec	.074 G-s
PIP - Pump Inboard Horz Peakvue	.0062 G-s	

Clarification Of Vibration Units:
Acc --> G-s RMS
Vel --> In/Sec PK Abbreviated Last Measurement

Summary

Database: AECI Dell Power Plant.rbm
Area: UNIT 1
Report Date: 22-Oct-19 09:29

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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LP #1 - LP recirc unit #1	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.105 In/Sec	1.176 G-s
MOP - Motor Outboard Horz Peakvue	.187 G-s	
MOV - Motor Outboard Vertical	.060 In/Sec	.786 G-s
MIH - Motor Inboard Horizontal	.135 In/Sec	2.106 G-s
MIP - Motor Inboard Horz Peakvue	.715 G-s	
MIV - Motor Inboard Vertical	.146 In/Sec	2.554 G-s
MIA - Motor Inboard Axial	.097 In/Sec	1.343 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.172 In/Sec	.641 G-s
PIP - Pump Inboard Horz Peakvue	.161 G-s	
PIV - Pump Inboard Vertical	.135 In/Sec	.642 G-s
POH - Pump Outboard Horizontal	.089 In/Sec	.880 G-s
POP - Pump Outboard Horz Peakvue	.034 G-s	
POV - Pump Outboard Vertical	.118 In/Sec	.506 G-s
POA - Pump Outboard Axial	.157 In/Sec	.213 G-s
1FD-P-001A - Boiler Feed Water 1A	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.043 In/Sec	.178 G-s
MOP - Motor Outboard Horz Peakvue	.047 G-s	
MOV - Motor Outboard Vertical	.085 In/Sec	.113 G-s
MIH - Motor Inboard Horizontal	.036 In/Sec	.154 G-s
MIP - Motor Inboard Horz Peakvue	.032 G-s	
MIV - Motor Inboard Vertical	.079 In/Sec	.284 G-s
MIA - Motor Inboard Axial	.033 In/Sec	.481 G-s
	OVERALL LEVEL	1K-20kHz
NIA - NELSON INBOARD AXIAL	.095 In/Sec	.646 G-s
NIH - NELSON INBOARD HORIZONTAL	.075 In/Sec	.470 G-s
NIV - NELSON INBOARD VERTICAL	.055 In/Sec	.530 G-s
NOV - NELSON OUTBOARD VERTICAL	.097 In/Sec	.179 G-s
NOH - NELSON OUTBOARD HORIZONTAL	.142 In/Sec	.193 G-s
NOA - NELSON OUTBOARD AXIAL	.080 In/Sec	.769 G-s
	OVERALL LEVEL	1K-20kHz
BFA - BOILER FEEDWATER PUMP AXIAL	.052 In/Sec	.216 G-s
PIH - BFWP INBOARD HORIZONTAL	.075 In/Sec	.259 G-s
PIV - BFWP INBOARD VERTICAL	.090 In/Sec	.202 G-s
POV - BFWP OUTBOARD VERTICAL	.078 In/Sec	.115 G-s
POH - BFWP OUTBOARD HORIZONTAL	.110 In/Sec	.139 G-s
CT1 - CT Lube Oil Pump 1	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz

MOH - Motor Outboard Horizontal	.028 In/Sec	.056 G-s
MOP - Motor Outboard Horz Peakvue	.0067 G-s	
MIH - Motor Inboard Horizontal	.014 In/Sec	.078 G-s
MIP - Motor Inboard Horz Peakvue	.020 G-s	
MIA - Motor Inboard Axial	.017 In/Sec	.188 G-s

CTHYD ! - CT Hyd Pump 1

(17-Oct-19)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.115 In/Sec	.259 G-s
MOP - Motor Outboard Horz Peakvue	.052 G-s	
MOV - Motor Outboard Vertical	.096 In/Sec	.153 G-s
MIH - Motor Inboard Horizontal	.055 In/Sec	.878 G-s
MIP - Motor Inboard Horz Peakvue	.182 G-s	
MIV - Motor Inboard Vertical	.065 In/Sec	.306 G-s
MIA - Motor Inboard Axial	.090 In/Sec	.749 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.175 In/Sec	.742 G-s
PIP - Pump Inboard Horz Peakvue	.255 G-s	
PIV - Pump Inboard Vertical	.158 In/Sec	1.394 G-s
PIA - Pump Inboard Axial	.131 In/Sec	2.600 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK
			Abbreviated Last Measurement

Summary

Database: AECI Dell Power Plant.rbm

Area: UNIT 2

Report Date: 22-Oct-19 09:29

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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LP #2 - LP recirc unit #2

(17-Oct-19)

	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.112 In/Sec	.271 G-s
MOP - Motor Outboard Horz Peakvue	.053 G-s	
MOV - Motor Outboard Vertical	.100 In/Sec	.177 G-s
MIH - Motor Inboard Horizontal	.126 In/Sec	.260 G-s
MIP - Motor Inboard Horz Peakvue	.044 G-s	
MIV - Motor Inboard Vertical	.133 In/Sec	.363 G-s
MIA - Motor Inboard Axial	.166 In/Sec	.270 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.227 In/Sec	.384 G-s
PIP - Pump Inboard Horz Peakvue	.100 G-s	
PIV - Pump Inboard Vertical	.122 In/Sec	.283 G-s
POH - Pump Outboard Horizontal	.074 In/Sec	.300 G-s
POP - Pump Outboard Horz Peakvue	.061 G-s	
POV - Pump Outboard Vertical	.098 In/Sec	.184 G-s
POA - Pump Outboard Axial	.097 In/Sec	.270 G-s

2FD-P-002B - Boiler Feed Water 2B

(17-Oct-19)

	OVERALL LEVEL	1K-20KHz
MOH - Motor Outboard Horizontal	.046 In/Sec	.088 G-s
MOP - Motor Outboard Horz Peakvue	.032 G-s	

MOV - Motor Outboard Vertical	.024 In/Sec	.158 G-s
MIH - Motor Inboard Horizontal	.023 In/Sec	.184 G-s
MIP - Motor Inboard Horz Peakvue	.036 G-s	
MIV - Motor Inboard Vertical	.019 In/Sec	.625 G-s
MIA - Motor Inboard Axial	.034 In/Sec	.266 G-s
	OVERALL LEVEL	1K-20kHz
NIA - NELSON INBOARD AXIAL	.122 In/Sec	.558 G-s
NIH - NELSON INBOARD HORIZONTAL	.079 In/Sec	.507 G-s
NIV - NELSON INBOARD VERTICAL	.091 In/Sec	.481 G-s
NOV - NELSON OUTBOARD VERTICAL	.088 In/Sec	.289 G-s
NOH - NELSON OUTBOARD HORIZONTAL	.090 In/Sec	.389 G-s
NOA - NELSON OUTBOARD AXIAL	.107 In/Sec	.540 G-s
	OVERALL LEVEL	1K-20KHz
BFA - BOILER FEEDWATER PUMP AXIAL	.075 In/Sec	.255 G-s
PIH - BFWP INBOARD HORIZONTAL	.066 In/Sec	.185 G-s
PIV - BFWP INBOARD VERTICAL	.075 In/Sec	.134 G-s
POV - BFWP OUTBOARD VERTICAL	.049 In/Sec	.085 G-s
POH - BFWP OUTBOARD HORIZONTAL	.087 In/Sec	.106 G-s
CT2 - CT Lube Oil Pump 2	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.052 In/Sec	.200 G-s
MOP - Motor Outboard Horz Peakvue	.077 G-s	
MOV - Motor Outboard Vertical	.040 In/Sec	.199 G-s
MIH - Motor Inboard Horizontal	.044 In/Sec	.377 G-s
MIP - Motor Inboard Horz Peakvue	.122 G-s	
MIV - Motor Inboard Vertical	.045 In/Sec	.053 G-s
MIA - Motor Inboard Axial	.052 In/Sec	.368 G-s
CTHYD !1 - CT Hyd Pump 2	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.063 In/Sec	.133 G-s
MOP - Motor Outboard Horz Peakvue	.037 G-s	
MOV - Motor Outboard Vertical	.067 In/Sec	.288 G-s
MIH - Motor Inboard Horizontal	.025 In/Sec	.273 G-s
MIP - Motor Inboard Horz Peakvue	.091 G-s	
MIV - Motor Inboard Vertical	.036 In/Sec	.429 G-s
MIA - Motor Inboard Axial	.041 In/Sec	.766 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.096 In/Sec	1.059 G-s
PIP - Pump Inboard Horz Peakvue	.289 G-s	
PIV - Pump Inboard Vertical	.182 In/Sec	1.783 G-s
PIA - Pump Inboard Axial	.129 In/Sec	2.739 G-s
ABF - Aux Boiler Fan	(17-Oct-19)	
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.205 In/Sec	.081 G-s
MOP - Motor Outboard Horz Peakvue	.0093 G-s	
MOV - Motor Outboard Vertical	.281 In/Sec	.528 G-s
MIH - Motor Inboard Horizontal	.063 In/Sec	.326 G-s
MIP - Motor Inboard Horz Peakvue	.054 G-s	
MIV - Motor Inboard Vertical	.109 In/Sec	.182 G-s
MIA - Motor Inboard Axial	.232 In/Sec	.024 G-s

Clarification Of Vibration Units:
Acc --> G-s RMS

3CH-P-001C - Condensate PumpC		(17-Oct-19)
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.331 In/Sec	.180 G-s
MOP - Motor Outboard Horz Peakvue	.054 G-s	
MOV - Motor Outboard Vertical	.389 In/Sec	.427 G-s
MIH - Motor Inboard Horizontal	.209 In/Sec	.203 G-s
MIP - Motor Inboard Horz Peakvue	.084 G-s	
MIV - Motor Inboard Vertical	.139 In/Sec	.473 G-s
MIA - Motor Inboard Axial	.083 In/Sec	.326 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.046 In/Sec	.331 G-s
PIP - Pump Inboard Horz Peakvue	.124 G-s	

3AE-P-002 - Vacuum Pump 2		(17-Oct-19)
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.074 In/Sec	.435 G-s
MOP - Motor Outboard Horz Peakvue	.134 G-s	
MOV - Motor Outboard Vertical	.089 In/Sec	.379 G-s
MIH - Motor Inboard Horizontal	.098 In/Sec	.233 G-s
MIP - Motor Inboard Horz Peakvue	.046 G-s	
MIV - Motor Inboard Vertical	.120 In/Sec	.339 G-s
MIA - Motor Inboard Axial	.109 In/Sec	.179 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.118 In/Sec	.300 G-s
PIP - Pump Inboard Horz Peakvue	.181 G-s	
PIV - Pump Inboard Vertical	.141 In/Sec	.366 G-s
POH - Pump Outboard Horizontal	.130 In/Sec	.265 G-s
POP - Pump Outboard Horz Peakvue	.114 G-s	
POV - Pump Outboard Vertical	.138 In/Sec	.347 G-s
POA - Pump Outboard Axial	.100 In/Sec	.425 G-s

3AE-P-001 - Vacuum Pump 1		(17-Oct-19)
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.130 In/Sec	.453 G-s
MOP - Motor Outboard Horz Peakvue	.160 G-s	
MOV - Motor Outboard Vertical	.170 In/Sec	.580 G-s
MIH - Motor Inboard Horizontal	.168 In/Sec	.100 G-s
MIP - Motor Inboard Horz Peakvue	.037 G-s	
MIV - Motor Inboard Vertical	.313 In/Sec	.723 G-s
MIA - Motor Inboard Axial	.270 In/Sec	.175 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.259 In/Sec	1.221 G-s
PIP - Pump Inboard Horz Peakvue	.918 G-s	
PIV - Pump Inboard Vertical	.351 In/Sec	.631 G-s
POH - Pump Outboard Horizontal	.234 In/Sec	.877 G-s
POP - Pump Outboard Horz Peakvue	.665 G-s	
POV - Pump Outboard Vertical	.458 In/Sec	.946 G-s
POA - Pump Outboard Axial	.207 In/Sec	2.315 G-s

STG1 - STG Lube Oil Pump 1		(17-Oct-19)
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.063 In/Sec	.141 G-s
MOP - Motor Outboard Horz Peakvue	.043 G-s	
MOV - Motor Outboard Vertical	.063 In/Sec	.221 G-s
MIH - Motor Inboard Horizontal	.051 In/Sec	.151 G-s
MIP - Motor Inboard Horz Peakvue	.041 G-s	
MIV - Motor Inboard Vertical	.053 In/Sec	.077 G-s

MIA - Motor Inboard Axial	.068 In/Sec	.132 G-s
STGHyd1 - STG Hyd Pump 1 (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.120 In/Sec	.864 G-s
MOP - Motor Outboard Horz Peakvue	.169 G-s	
MOV - Motor Outboard Vertical	.103 In/Sec	.683 G-s
MIH - Motor Inboard Horizontal	.116 In/Sec	3.621 G-s
MIP - Motor Inboard Horz Peakvue	1.589 G-s	
MIV - Motor Inboard Vertical	.140 In/Sec	1.531 G-s
MIA - Motor Inboard Axial	.100 In/Sec	.755 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.334 In/Sec	2.668 G-s
PIP - Pump Inboard Horz Peakvue	1.099 G-s	
PIV - Pump Inboard Vertical	.278 In/Sec	2.757 G-s
PIA - Pump Inboard Axial	.400 In/Sec	8.609 G-s

Clarification Of Vibration Units:

Acc	-->	G-s	RMS
Vel	-->	In/Sec	PK
			Abbreviated Last Measurement

Summary

Database: AECI Dell Power Plant.rbm
Area: WATER PUMPS AND VACUUM PUMPS
Report Date: 22-Oct-19 09:29

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
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OSW-P-001B - Service Water Pump 1B (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.136 In/Sec	.267 G-s
MOP - Motor Outboard Horz Peakvue	.017 G-s	
MOV - Motor Outboard Vertical	.037 In/Sec	.148 G-s
MIH - Motor Inboard Horizontal	.148 In/Sec	.137 G-s
MIP - Motor Inboard Horz Peakvue	.040 G-s	
MIV - Motor Inboard Vertical	.092 In/Sec	.100 G-s
MIA - Motor Inboard Axial	.035 In/Sec	.112 G-s
	OVERALL LEVEL	1K-20kHz
PIH - Pump Inboard Horizontal	.157 In/Sec	1.036 G-s
PIP - Pump Inboard Horz Peakvue	.334 G-s	
PIV - Pump Inboard Vertical	.169 In/Sec	.735 G-s
POH - Pump Outboard Horizontal	.151 In/Sec	1.100 G-s
POP - Pump Outboard Horz Peakvue	.628 G-s	
POV - Pump Outboard Vertical	.212 In/Sec	1.544 G-s
POA - Pump Outboard Axial	.141 In/Sec	2.222 G-s

ORW-P-001B - Deep Well Pump B (17-Oct-19)		
	OVERALL LEVEL	1K-20kHz
MOH - Motor Outboard Horizontal	.048 In/Sec	.114 G-s
MOP - Motor Outboard Horz Peakvue	.014 G-s	
MOV - Motor Outboard Vertical	.068 In/Sec	.034 G-s
MIH - Motor Inboard Horizontal	.030 In/Sec	.077 G-s
MIP - Motor Inboard Horz Peakvue	.018 G-s	
MIV - Motor Inboard Vertical	.040 In/Sec	.146 G-s

MIA - Motor Inboard Axial	.020 In/Sec	.204 G-s
	OVERALL LEVEL	1K-20KHz
PIH - Pump Inboard Horizontal	.030 In/Sec	.093 G-s
PIP - Pump Inboard Horz Peakvue	.027 G-s	

Clarification Of Vibration Units:

Acc	--> G-s	RMS
Vel	--> In/Sec	PK
C2V - Compressor Outboard Vertical	.060 In/Sec	