HI-SPEED INDUSTRIAL SERVICE

MILLINGTON, TN

February 7, 2022

Dell Power AECI

Subject: Q1 February vibration service report

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

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

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Cooling Tower Area

Cooling tower fan 2
The motor data shows what looks to be non-synchronous vibrations that we suspect are early bearing defect frequencies. Ensure the motor bearings are lubricated if applicable. **Rated a Class II Defect.**

Cooling tower fan 8
Unit still has what looks to be elevated fan blade pass vibration or structural resonance in the motor. Inspect the unit fasteners and structures. Overall velocity has dropped a little. **Rated a Class I Defect.**

Cooling tower fan 10
Unit has what looks to be elevated fan blade pass vibration or structural resonance in the motor. Inspect the unit fasteners and structures. Overall velocity has dropped a little. **Rated a Class II Defect.**

Circulation Water Pump 2
The motor outboard (top) point MOH has increased at shaft speed to 0.319"/second velocity peak overall. There could bear slight wear, or possibly build up or debris on the impeller. Watch for changes. **Rated a Class I Defect.**

Gas Turbine Unit 1

Not in operation at time of the survey.

Gas Turbine Unit 2

LP recirc unit #2
The pump input vibrations are showing an increase in shaft speed harmonics which could indicate looseness in the bearings or bearing to shaft or housing fits. This could get worse quickly. Inspect in the near future. **Rated a Class II Defect.**

Steam Turbine Unit

Condensate Pump C
Motor top vibration overall has decreased and is under 0.4”/second velocity peak now and consists of a 1x shaft speed and 3x RPM vibration. No immediate concern yet. **Rated a Class I Defect.**

Vacuum pump 2
The pump data is still showing the fundamental vane pass and first harmonic in the outboard bearing and what looks to be cavitation. We recommend inspecting the unit and check that the pump is operating optimally. **Rated a Class I Defect.**

Service Water Pumps

Service water pump 1A
The pump vibrations seem to indicate cavitation in the pump plus possible non-synchronous peaks in the outboard axial that could indicate distress in that bearing. Check the operating parameters and ensure the bearings are lubricated. **Rated a Class II Defect.**

Deep Well Pump C
Vibration data peaks still match the defect frequency markers of the installed drive end bearing. The amplitudes do not warrant any immediate action as yet. **Rated a Class I Defect.**

Chiller Mod 1

Not in operation at time of the survey.

Chiller Mod 2

Not in operation at time of the survey.

Chiller Mod 3

Not in operation at time of the survey.

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: Coooling Tower
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
CTW1 - Cooling Tower Fan 1	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.223 In/Sec	1.063 G-s	1780.0 RPM
MOP	.036 G-s		
MOV	.150 In/Sec	.468 G-s	
MIH	.172 In/Sec	.219 G-s	
MIP	.108 G-s		
MIV	.173 In/Sec	.393 G-s	
MIA	.256 In/Sec	.925 G-s	
CTW2 - Cooling Tower Fan 2	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.096 In/Sec	.406 G-s	1780.0 RPM
MOP	.059 G-s		
MOV	.098 In/Sec	.353 G-s	
MIH	.133 In/Sec	1.518 G-s	
MIP	.325 G-s		
MIV	.083 In/Sec	.474 G-s	
MIA	.153 In/Sec	.286 G-s	
CTW3 - Cooling Tower Fan 3	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.123 In/Sec	.231 G-s	1780.0 RPM
MOP	.085 G-s		
MOV	.067 In/Sec	.171 G-s	
MIH	.111 In/Sec	.914 G-s	
MIP	.517 G-s		
MIV	.085 In/Sec	.081 G-s	
MIA	.125 In/Sec	.037 G-s	
CTW4 - Cooling Tower Fan 4	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.091 In/Sec	.273 G-s	1780.0 RPM
MOP	.118 G-s		
MOV	.078 In/Sec	.171 G-s	
MIH	.088 In/Sec	.836 G-s	
MIP	.418 G-s		
MIV	.070 In/Sec	.162 G-s	
MIA	.103 In/Sec	.085 G-s	
CTW6 - Cooling Tower Fan 6	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.121 In/Sec	.198 G-s	1780.0 RPM
MOP	.095 G-s		
MOV	.082 In/Sec	.091 G-s	
MIH	.121 In/Sec	.775 G-s	

	MIP	.237 G-s		
	MIV	.077 In/Sec	.069 G-s	
	MIA	.090 In/Sec	.068 G-s	
CTW7	- Cooling Tower Fan 7		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.129 In/Sec	.247 G-s	1780.0 RPM
	MOP	.030 G-s		
	MOV	.124 In/Sec	.177 G-s	
	MIH	.116 In/Sec	.967 G-s	
	MIP	.622 G-s		
	MIV	.148 In/Sec	.287 G-s	
	MIA	.178 In/Sec	.064 G-s	
CTW8	- Cooling Tower Fan 8		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.278 In/Sec	1.677 G-s	1780.0 RPM
	MOP	.179 G-s		
	MOV	.191 In/Sec	1.056 G-s	
	MIH	.176 In/Sec	.287 G-s	
	MIP	.121 G-s		
	MIV	.244 In/Sec	.560 G-s	
	MIA	.370 In/Sec	.381 G-s	
CTW9	- Cooling Tower Fan 9		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.289 In/Sec	.267 G-s	1780.0 RPM
	MOP	.044 G-s		
	MOV	.103 In/Sec	.146 G-s	
	MIH	.230 In/Sec	.567 G-s	
	MIP	.262 G-s		
	MIV	.107 In/Sec	.162 G-s	
	MIA	.155 In/Sec	.064 G-s	
CTW10	- Cooling Tower Fan 10		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.284 In/Sec	2.034 G-s	1780.0 RPM
	MOP	.070 G-s		
	MOV	.292 In/Sec	.579 G-s	
	MIH	.170 In/Sec	.540 G-s	
	MIP	.441 G-s		
	MIV	.221 In/Sec	.688 G-s	
	MIA	.394 In/Sec	.384 G-s	
CTW11	- Cooling Tower Fan 11		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.215 In/Sec	.185 G-s	1780.0 RPM
	MOP	.083 G-s		
	MOV	.147 In/Sec	.202 G-s	
	MIH	.097 In/Sec	.078 G-s	
	MIP	.013 G-s		
	MIV	.086 In/Sec	.134 G-s	
	MIA	.118 In/Sec	.021 G-s	
CTW12	- Cooling Tower Fan 12		(01-Feb-22)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.093 In/Sec	.199 G-s	1780.0 RPM

MOP	.060 G-s			
MOV	.075 In/Sec	.057 G-s		
MIH	.084 In/Sec	.210 G-s		
MIP	.123 G-s			
MIV	.066 In/Sec	.135 G-s		
MIA	.084 In/Sec	.031 G-s		

3CW-P-001 - Circ Water Pump 1 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.119 In/Sec	.183 G-s	507.0 RPM
MOP	.104 G-s		
MOV	.049 In/Sec	.244 G-s	
MIH	.078 In/Sec	.224 G-s	
MIP	.132 G-s		
MIV	.040 In/Sec	.288 G-s	
MIA	.029 In/Sec	.341 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.037 In/Sec	.195 G-s	
PIP	.036 G-s		

3CW-P-002 - Circ Water Pump 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.319 In/Sec	.155 G-s	507.0 RPM
MOP	.080 G-s		
MOV	.145 In/Sec	.253 G-s	
MIH	.179 In/Sec	.190 G-s	
MIP	.089 G-s		
MIV	.049 In/Sec	.250 G-s	
MIA	.056 In/Sec	.119 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.038 In/Sec	.080 G-s	
PIP	.0048 G-s		

LFAA1 - LFAA 1A (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.167 In/Sec	.573 G-s	1770.0 RPM
MOP	.268 G-s		
MOV	.210 In/Sec	.420 G-s	
MIH	.079 In/Sec	.382 G-s	
MIP	.248 G-s		
MIV	.106 In/Sec	.277 G-s	
MIA	.050 In/Sec	.139 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.013 In/Sec	.061 G-s	
PIP	.012 G-s		

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

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: UNIT 1
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
LP #1 - LP recirc unit #1		(06-Oct-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.088 In/Sec	.179 G-s	3565.0 RPM
MOP	.037 G-s		
MOV	.076 In/Sec	.159 G-s	
MIH	.096 In/Sec	.231 G-s	
MIP	.077 G-s		
MIV	.143 In/Sec	.441 G-s	
MIA	.168 In/Sec	.454 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.245 In/Sec	.246 G-s	
PIP	.098 G-s		
PIV	.136 In/Sec	.218 G-s	
POH	.111 In/Sec	.253 G-s	
POP	.029 G-s		
POV	.076 In/Sec	.172 G-s	
POA	.094 In/Sec	.140 G-s	
1FD-P-001A - Boiler Feed Water 1A		(06-Oct-21)	
	OVERALL LEVEL	1K-20KHz	
MOH	.142 In/Sec	.801 G-s	3567.0 RPM
MOP	.051 G-s		
MOV	.153 In/Sec	.780 G-s	
MIH	.169 In/Sec	.204 G-s	
MIP	.086 G-s		
MIV	.149 In/Sec	.366 G-s	
MIA	.075 In/Sec	.465 G-s	
	OVERALL LEVEL	1K-20kHz	
NIA	.243 In/Sec	1.384 G-s	
NIH	.097 In/Sec	.781 G-s	
NIV	.084 In/Sec	.701 G-s	
NOV	.128 In/Sec	1.149 G-s	
NOH	.147 In/Sec	.663 G-s	
NOA	.305 In/Sec	.832 G-s	
	OVERALL LEVEL	1K-20KHz	
BFA	.060 In/Sec	.205 G-s	
PIH	.060 In/Sec	.163 G-s	
PIV	.066 In/Sec	.153 G-s	
POV	.051 In/Sec	.094 G-s	
POH	.072 In/Sec	.128 G-s	
CT2 - CT Lube Oil Pump 2		(06-Oct-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.073 In/Sec	.240 G-s	3570.0 RPM
MOP	.076 G-s		
MOV	.075 In/Sec	.327 G-s	
MIH	.053 In/Sec	.327 G-s	
MIP	.046 G-s		
MIV	.044 In/Sec	.288 G-s	
MIA	.051 In/Sec	.173 G-s	
CTHYD !1 - CT Hyd Pump 2		(06-Oct-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.055 In/Sec	.157 G-s	1780.0 RPM

MOP	.018 G-s			
MOV	.091 In/Sec	.236 G-s		
MIH	.041 In/Sec	.318 G-s		
MIP	.042 G-s			
MIV	.031 In/Sec	.273 G-s		
MIA	.078 In/Sec	.269 G-s		
	OVERALL LEVEL	1K-20KHz		
PIH	.086 In/Sec	2.268 G-s		
PIP	1.254 G-s			
PIV	.115 In/Sec	1.990 G-s		
PIA	.112 In/Sec	1.232 G-s		

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

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: UNIT 2
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
LP #2 - LP recirc unit #2	(01-Feb-22)		
	OVERALL LEVEL	1K-20kHz	
MOH	.186 In/Sec	.548 G-s	3565.0 RPM
MOP	.056 G-s		
MOV	.144 In/Sec	.322 G-s	
MIH	.224 In/Sec	.633 G-s	
MIP	.318 G-s		
MIV	.192 In/Sec	.731 G-s	
MIA	.189 In/Sec	.291 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.326 In/Sec	.868 G-s	
PIP	.499 G-s		
PIV	.286 In/Sec	.919 G-s	
POH	.120 In/Sec	.364 G-s	
POP	.037 G-s		
POV	.219 In/Sec	.261 G-s	
POA	.258 In/Sec	.338 G-s	
2FD-P-002B - Boiler Feed Water 2B	(01-Feb-22)		
	OVERALL LEVEL	1K-20KHz	
MOH	.025 In/Sec	.102 G-s	3567.0 RPM
MOP	.046 G-s		
MOV	.033 In/Sec	.111 G-s	
MIH	.032 In/Sec	.329 G-s	
MIP	.169 G-s		
MIV	.052 In/Sec	.446 G-s	
MIA	.042 In/Sec	.308 G-s	
	OVERALL LEVEL	1K-20kHz	
NIA	.173 In/Sec	.223 G-s	
NIH	.122 In/Sec	.185 G-s	
NIV	.128 In/Sec	.363 G-s	

NOV	.102 In/Sec	.266 G-s		
NOH	.156 In/Sec	.182 G-s		
NOA	.161 In/Sec	.336 G-s		
	OVERALL LEVEL	1K-20KHz		
BFA	.038 In/Sec	.278 G-s		
PIH	.088 In/Sec	.166 G-s		
PIV	.111 In/Sec	.186 G-s		
POH	.130 In/Sec	.145 G-s		

CT2 - CT Lube Oil Pump 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.042 In/Sec	.225 G-s	3570.0 RPM
MOP	.061 G-s		
MOV	.063 In/Sec	.079 G-s	
MIH	.046 In/Sec	.187 G-s	
MIP	.060 G-s		
MIV	.032 In/Sec	.087 G-s	
MIA	.048 In/Sec	.137 G-s	

CTHYD !1 - CT Hyd Pump 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.053 In/Sec	.154 G-s	1780.0 RPM
MOP	.024 G-s		
MOV	.071 In/Sec	.099 G-s	
MIH	.031 In/Sec	.368 G-s	
MIP	.164 G-s		
MIV	.038 In/Sec	.663 G-s	
MIA	.038 In/Sec	.063 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.073 In/Sec	1.207 G-s	
PIP	.582 G-s		
PIV	.141 In/Sec	1.803 G-s	
PIA	.092 In/Sec	2.554 G-s	

ABF - Aux Boiler Fan (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.135 In/Sec	.111 G-s	3550.0 RPM
MOP	.019 G-s		
MOV	.285 In/Sec	.254 G-s	
MIH	.065 In/Sec	.297 G-s	
MIP	.079 G-s		
MIV	.053 In/Sec	.190 G-s	
MIA	.223 In/Sec	.154 G-s	

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

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: UNIT STEAM TURBINE
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED

0CC-P-002 - CLosed Cooling Water 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.092 In/Sec	.413 G-s	1775.0 RPM
MOP	.024 G-s		
MOV	.042 In/Sec	.299 G-s	
MIH	.097 In/Sec	.735 G-s	
MIP	.438 G-s		
MIV	.027 In/Sec	.328 G-s	
MIA	.037 In/Sec	.336 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.070 In/Sec	.360 G-s	
PIP	.203 G-s		
PIV	.066 In/Sec	.391 G-s	
POH	.088 In/Sec	.240 G-s	
POP	.066 G-s		
POV	.075 In/Sec	.255 G-s	
POA	.091 In/Sec	.442 G-s	

3CH-P-001A - Condensate Pump A (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.166 In/Sec	.168 G-s	1780.0 RPM
MOP	.039 G-s		
MOV	.168 In/Sec	.230 G-s	
MIH	.078 In/Sec	.207 G-s	
MIP	.081 G-s		
MIV	.062 In/Sec	.453 G-s	
MIA	.055 In/Sec	.255 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.030 In/Sec	.139 G-s	
PIP	.042 G-s		

3CH-P-001C - Condensate PumpC (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.324 In/Sec	.236 G-s	1780.0 RPM
MOP	.045 G-s		
MOV	.363 In/Sec	.460 G-s	
MIH	.167 In/Sec	.267 G-s	
MIP	.100 G-s		
MIV	.150 In/Sec	.751 G-s	
MIA	.119 In/Sec	.064 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.032 In/Sec	.612 G-s	
PIP	.263 G-s		

3AE-P-002 - Vacuum Pump 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.144 In/Sec	.391 G-s	1185.0 RPM
MOP	.115 G-s		
MOV	.160 In/Sec	.438 G-s	
MIH	.183 In/Sec	.257 G-s	
MIP	.059 G-s		
MIV	.245 In/Sec	.250 G-s	
MIA	.168 In/Sec	.156 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.233 In/Sec	.542 G-s	
PIP	.371 G-s		

PIV	.262 In/Sec	.630 G-s	
POH	.241 In/Sec	.403 G-s	
POP	.327 G-s		
POV	.359 In/Sec	.661 G-s	
POA	.237 In/Sec	.190 G-s	

STG1 - STG Lube Oil Pump 1 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.081 In/Sec	.110 G-s	3560.0 RPM
MOP	.025 G-s		
MOV	.050 In/Sec	.416 G-s	
MIH	.035 In/Sec	.191 G-s	
MIP	.044 G-s		
MIV	.034 In/Sec	.146 G-s	
MIA	.098 In/Sec	.217 G-s	

STGHyd2 - STG Hyd Pump 2 (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.143 In/Sec	.788 G-s	1770.0 RPM
MOP	.300 G-s		
MOV	.143 In/Sec	1.010 G-s	
MIH	.129 In/Sec	1.601 G-s	
MIV	.134 In/Sec	1.629 G-s	
MIA	.123 In/Sec	.591 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.174 In/Sec	.288 G-s	
PIV	.122 In/Sec	.374 G-s	
PIA	.202 In/Sec	.569 G-s	
POH	.175 In/Sec	.420 G-s	
POP	.188 G-s		
POV	.150 In/Sec	.573 G-s	

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

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: WATER PUMPS AND VACUUM PUMPS
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED

OSW-P-001A - Service Water Pump 1A (01-Feb-22)

	OVERALL LEVEL	1K-20kHz	
MOH	.068 In/Sec	.086 G-s	1780.0 RPM
MOP	.018 G-s		
MOV	.038 In/Sec	.238 G-s	
MIH	.067 In/Sec	.384 G-s	
MIP	.231 G-s		
MIV	.046 In/Sec	.198 G-s	
MIA	.061 In/Sec	.858 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.280 In/Sec	.702 G-s	

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        PIP              .307 G-s
        PIV              .279 In/Sec       .679 G-s
        POH              .238 In/Sec       .715 G-s
        POP              .154 G-s
        POV              .203 In/Sec      1.071 G-s
        POA              .224 In/Sec      2.193 G-s

 ORW-P-001B - Deep Well Pump B              (01-Feb-22)
                      OVERALL LEVEL     1K-20kHz
        MOH              .228 In/Sec       .225 G-s        1780.0 RPM
        MOP              .072 G-s
        MOV              .198 In/Sec       .122 G-s
        MIH              .074 In/Sec       .148 G-s
        MIP              .052 G-s
        MIV              .105 In/Sec       .077 G-s
        MIA              .038 In/Sec       .053 G-s
                      OVERALL LEVEL     1K-20KHz
        PIH              .075 In/Sec       .051 G-s
        PIP             .0060 G-s

 ORW-P-001C - Deep Well Pump C              (01-Feb-22)
                      OVERALL LEVEL     1K-20kHz
        MOH              .148 In/Sec       .285 G-s        1780.0 RPM
        MOP              .140 G-s
        MOV              .126 In/Sec       .343 G-s
        MIH              .069 In/Sec      1.615 G-s
        MIP              .986 G-s
        MIV              .054 In/Sec       .968 G-s
        MIA              .041 In/Sec       .356 G-s
                      OVERALL LEVEL     1K-20KHz
        PIH              .050 In/Sec       .379 G-s
        PIP              .177 G-s

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   Clarification Of Vibration Units:
      Acc      -->  G-s      RMS
      Vel      -->  In/Sec   PK                      Abbreviated Last Measurement
Summary
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               Database:  AECI Dell Power Plant.rbm
               Area:      Chiller Module 1
               Report Date:  07-Feb-22   10:27

 MEASUREMENT POINT     OVERALL LEVEL       HFD / VHFD     EQUIPMENT SPEED
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 TWP 102    - Chiller Cooling Tower Pump 2  (06-Oct-21)
                      OVERALL LEVEL     1K-20kHz
        MOH              .413 In/Sec       .619 G-s        1185.0 RPM
        MOP              .204 G-s
        MOV              .376 In/Sec       .332 G-s
        MIH              .148 In/Sec       .142 G-s
        MIV              .121 In/Sec       .177 G-s
        MIA              .054 In/Sec       .227 G-s
                      OVERALL LEVEL     1K-20KHz
        PIH              .142 In/Sec       .253 G-s
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PIP	.166 G-s		
PIV	.051 In/Sec	.235 G-s	

CHWP 102 - Chilled Water Pump 2 (06-Oct-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.125 In/Sec	.466 G-s	1780.0 RPM
MOP	.025 G-s		
MOV	.138 In/Sec	.512 G-s	
MIH	.136 In/Sec	.178 G-s	
MIP	.104 G-s		
MIV	.118 In/Sec	.239 G-s	
MIA	.052 In/Sec	.286 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.059 In/Sec	.112 G-s	
PIP	.014 G-s		
PIV	.058 In/Sec	.079 G-s	

Comp Mtr B - Chiller compressor Mtr. B (06-Oct-21)

	OVERALL LEVEL	1K-20kHz	
M1H	.103 In/Sec	.815 G-s	3564.0 RPM
M1P	.187 G-s		
M1V	.092 In/Sec	1.003 G-s	
M2H	.058 In/Sec	.250 G-s	
M2P	.0081 G-s		
M2V	.042 In/Sec	.544 G-s	
M2A	.058 In/Sec	1.406 G-s	
C1H	.052 In/Sec		
C1P	.058 G-s		
C1V	.033 In/Sec		
C1A	.040 In/Sec		
C2H	.037 In/Sec		
C2P	.221 G-s		
C2V	.045 In/Sec		

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

Abbreviated Last Measurement Summary

****

Database: AECI Dell Power Plant.rbm
Area: Chiller Module 2
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED

TWP 201 - Chiller Cooling Tower Pump 1 (06-Oct-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.122 In/Sec	1.196 G-s	1185.0 RPM
MOP	.551 G-s		
MOV	.085 In/Sec	.762 G-s	
MIH	.059 In/Sec	.364 G-s	
MIV	.050 In/Sec	.253 G-s	
MIA	.046 In/Sec	.557 G-s	
	OVERALL LEVEL	1K-20KHz	

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        PIH              .045 In/Sec       .236 G-s
        PIP              .169 G-s
        PIV              .039 In/Sec       .250 G-s

 CHWP 201   - Chilled Water Pump 1          (06-Oct-21)
                       OVERALL LEVEL     1K-20kHz
        MOH              .110 In/Sec       .453 G-s        1780.0 RPM
        MOP              .112 G-s
        MOV              .147 In/Sec       .426 G-s
        MIH              .089 In/Sec       .327 G-s
        MIP              .099 G-s
        MIV              .133 In/Sec       .123 G-s
        MIA              .049 In/Sec       .314 G-s
                       OVERALL LEVEL     1K-20KHz
        PIH              .066 In/Sec       .085 G-s
        PIP              .031 G-s
        PIV              .055 In/Sec       .092 G-s

 Comp A     - Chiller compressor Mtr. A     (06-Oct-21)
                       OVERALL LEVEL     1K-20kHz
        M1H              .062 In/Sec       .242 G-s        3564.0 RPM
        M1P              .023 G-s
        M1V              .065 In/Sec       .202 G-s
        M2H              .037 In/Sec       .313 G-s
        M2P              .017 G-s
        M2V              .032 In/Sec       .314 G-s
        M2A              .032 In/Sec       .162 G-s
        C1H              .040 In/Sec
        C1P              .044 G-s
        C1V              .045 In/Sec
        C1A              .042 In/Sec

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

               Database:  AECI Dell Power Plant.rbm
               Area:      Chiller Module 3
               Report Date:  07-Feb-22   10:27

 MEASUREMENT POINT     OVERALL LEVEL       HFD / VHFD     EQUIPMENT SPEED
 -----------------     -------------       ----------     ---------------

            ***  NO DATA Was Found That Meets the Report Specification ***
Abbreviated Last Measurement Summary
                     ************************************

               Database:  AECI Dell Power Plant.rbm
               Area:      Liquid Fuel NOX AND LP REC PUMP
               Report Date:  07-Feb-22   10:27

 MEASUREMENT POINT     OVERALL LEVEL       HFD / VHFD     EQUIPMENT SPEED
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*** NO DATA Was Found That Meets the Report Specification ***

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: OLD BOILER DO NOT USE
Report Date: 07-Feb-22 10:27

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
2FD-P-002B - Boiler Feed Water 2B		(31-May-18)	
	OVERALL LEVEL	1K-20KHz	
MOH	.089 In/Sec	1.086 G-s	3567.0 RPM
MOP	1.862 G-s		
MOV	.211 In/Sec	2.391 G-s	
MIH	.107 In/Sec	.336 G-s	
MIP	.307 G-s		
MIV	.232 In/Sec	.504 G-s	
MIA	.218 In/Sec	.582 G-s	

Clarification Of Vibration Units:

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