HI-SPEED INDUSTRIAL SERVICE

MILLINGTON, TN

July 30, 2021

Dell Power AECI

Subject: July 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 2
Unit has what looks to be elevated fan blade pass vibration dominant in the motor axial as well as a lesser motor speed vibration. The motor data also shows what looks to be non-synchronous vibrations that we suspect are early bearing defect frequencies. Ensure the motor bearings are lubricated if applicable. Inspect the motor fasteners, base, drive shaft, couplings and alignment as time allows. **Rated a Class II Defect.**

Cooling tower fans 3, 5, 8, 9
Units have an elevated motor speed vibration as well as suspected blade pass vibration in the motor axial. Inspect the motor fasteners, base, drive shaft, couplings and alignment as time allows. **Rated a Class I Defect.**

Cooling tower 6
Unit has what looks to be elevated fan blade pass vibration in the motor as well as motor speed. Inspect the unit fasteners and structures. **Rated a Class II Defect.**

Cooling tower 11
Unit still has an elevated motor speed vibration. Inspect the motor fasteners, fan, base, drive shaft, couplings, and alignment at the next opportunity. **Rated a Class III Defect.**

Gas Turbine Unit 1

Boiler feed water pump 1A
The nelson drive has an overall vibration at 0.25”/second velocity peak for the axials. The dominant peak is at 64.5 Hz, and we don’t remember seeing this peak before. **Question**: Can the nelson drive run faster than the main motor which has a shaft speed of just under 60 Hz.? **Rated a Class I Defect.**

Gas Turbine Unit 2

Boiler feed water pump 2A
The nelson drive has an overall vibration at 0.4”/second velocity peak for the inboard axial. The dominant peak is at near 64.5 Hz, and we don’t remember seeing this peak before but once before. **Question**: Can the nelson drive run faster than the main motor which has a shaft speed of just under 60 Hz.? **Rated a Class II Defect.**

Steam Turbine Unit

Condensate Pump C
Motor top vibration overall has slightly increased and is over 0.4"/second velocity peak and consists primarily of a shaft speed and 3x RPM vibrations. 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 A
Vibration data is limited on this pump; however the motor was making odd sounds, the overall acceleration has dramatically increased, and the spectrum has multiple non-synchronous vibration peaks with associated harmonics for the top bearing. Since we are going to a quarterly service, we feel we need to adjust our ratings to be on the cautious side an make this **Rated a Class III Defect.**

Chiller Mod 1 Pumps

No Immediate issues.

Chiller Mod 2 Pumps

No Immediate issues.

Abbreviated Last Measurement Summary

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Database: AECI Dell Power Plant.rbm
Area: Coooling Tower
Report Date: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
CTW1 - Cooling Tower Fan 1	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.232 In/Sec	1.072 G-s	1780.0 RPM
MOP	.245 G-s		
MOV	.195 In/Sec	.661 G-s	
MIH	.197 In/Sec	.404 G-s	
MIP	.434 G-s		
MIV	.172 In/Sec	.603 G-s	
MIA	.405 In/Sec	.182 G-s	
CTW2 - Cooling Tower Fan 2	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.265 In/Sec	1.394 G-s	1780.0 RPM
MOP	.311 G-s		
MOV	.237 In/Sec	1.377 G-s	
MIH	.175 In/Sec	2.882 G-s	
MIP	1.185 G-s		
MIV	.285 In/Sec	.945 G-s	
MIA	.521 In/Sec	.249 G-s	
CTW3 - Cooling Tower Fan 3	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.330 In/Sec	1.078 G-s	1780.0 RPM
MOP	.155 G-s		
MOV	.202 In/Sec	1.057 G-s	
MIH	.195 In/Sec	.405 G-s	
MIP	.241 G-s		
MIV	.380 In/Sec	.371 G-s	
MIA	.478 In/Sec	.588 G-s	
CTW4 - Cooling Tower Fan 4	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.166 In/Sec	1.092 G-s	1780.0 RPM
MOP	.058 G-s		
MOV	.229 In/Sec	1.324 G-s	
MIH	.171 In/Sec	.476 G-s	
MIP	.092 G-s		
MIV	.274 In/Sec	1.015 G-s	
MIA	.353 In/Sec	.374 G-s	
CTW5 - Cooling Tower Fan 5	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.250 In/Sec	.686 G-s	1780.0 RPM
MOP	.030 G-s		
MOV	.245 In/Sec	1.261 G-s	
MIH	.247 In/Sec	.454 G-s	

	MIP	.138 G-s		
	MIV	.185 In/Sec	.857 G-s	
	MIA	.528 In/Sec	1.497 G-s	
CTW6	- Cooling Tower Fan 6		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.209 In/Sec	1.356 G-s	1780.0 RPM
	MOP	.121 G-s		
	MOV	.184 In/Sec	1.050 G-s	
	MIH	.175 In/Sec	.602 G-s	
	MIP	.278 G-s		
	MIV	.312 In/Sec	1.275 G-s	
	MIA	.618 In/Sec	.302 G-s	
CTW7	- Cooling Tower Fan 7		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.220 In/Sec	1.056 G-s	1780.0 RPM
	MOP	.323 G-s		
	MOV	.252 In/Sec	1.242 G-s	
	MIH	.162 In/Sec	.702 G-s	
	MIP	.276 G-s		
	MIV	.274 In/Sec	.782 G-s	
	MIA	.276 In/Sec	.885 G-s	
CTW8	- Cooling Tower Fan 8		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.264 In/Sec	1.795 G-s	1780.0 RPM
	MOP	.077 G-s		
	MOV	.222 In/Sec	1.623 G-s	
	MIH	.150 In/Sec	.426 G-s	
	MIP	.286 G-s		
	MIV	.264 In/Sec	.614 G-s	
	MIA	.434 In/Sec	.268 G-s	
CTW9	- Cooling Tower Fan 9		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.492 In/Sec	2.611 G-s	1780.0 RPM
	MOP	.059 G-s		
	MOV	.370 In/Sec	.887 G-s	
	MIH	.401 In/Sec	1.006 G-s	
	MIP	.328 G-s		
	MIV	.309 In/Sec	.850 G-s	
	MIA	.344 In/Sec	1.112 G-s	
CTW10	- Cooling Tower Fan 10		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	.289 In/Sec	.801 G-s	1780.0 RPM
	MOP	.088 G-s		
	MOV	.286 In/Sec	.812 G-s	
	MIH	.197 In/Sec	.491 G-s	
	MIP	.304 G-s		
	MIV	.256 In/Sec	1.158 G-s	
	MIA	.362 In/Sec	.558 G-s	
CTW11	- Cooling Tower Fan 11		(28-Jul-21)	
		OVERALL LEVEL	1K-20kHz	
	MOH	1.036 In/Sec	1.119 G-s	1780.0 RPM

	MOP	.096 G-s		
	MOV	.572 In/Sec	1.390 G-s	
	MIH	.830 In/Sec	.422 G-s	
	MIP	.061 G-s		
	MIV	.316 In/Sec	2.059 G-s	
	MIA	.531 In/Sec	.502 G-s	

CTW12 - Cooling Tower Fan 12 (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.205 In/Sec	.907 G-s	1780.0 RPM
MOP	.130 G-s		
MOV	.324 In/Sec	1.854 G-s	
MIH	.166 In/Sec	.660 G-s	
MIP	.160 G-s		
MIV	.272 In/Sec	1.155 G-s	
MIA	.323 In/Sec	.365 G-s	

3CW-P-001 - Circ Water Pump 1 (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.062 In/Sec	.227 G-s	507.0 RPM
MOP	.101 G-s		
MOV	.029 In/Sec	.360 G-s	
MIH	.045 In/Sec	.298 G-s	
MIP	.171 G-s		
MIV	.023 In/Sec	.347 G-s	
MIA	.028 In/Sec	.358 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.028 In/Sec	.527 G-s	
PIP	.244 G-s		

3CW-P-002 - Circ Water Pump 2 (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.187 In/Sec	.216 G-s	507.0 RPM
MOP	.107 G-s		
MOV	.116 In/Sec	.204 G-s	
MIH	.126 In/Sec	.232 G-s	
MIP	.098 G-s		
MIV	.054 In/Sec	.215 G-s	
MIA	.043 In/Sec	.278 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.036 In/Sec	.319 G-s	
PIP	.088 G-s		

LFAA2 - LFAA 1B (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.070 In/Sec	.495 G-s	1770.0 RPM
MOP	.279 G-s		
MOV	.059 In/Sec	.459 G-s	
MIH	.055 In/Sec	.301 G-s	
MIP	.134 G-s		
MIV	.069 In/Sec	.353 G-s	
MIA	.023 In/Sec	.379 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.012 In/Sec	.109 G-s	
PIP	.014 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: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
LP #1 - LP recirc unit #1		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.103 In/Sec	.169 G-s	3565.0 RPM
MOP	.026 G-s		
MOV	.077 In/Sec	.309 G-s	
MIH	.101 In/Sec	.553 G-s	
MIP	.181 G-s		
MIV	.110 In/Sec	.384 G-s	
MIA	.148 In/Sec	.326 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.250 In/Sec	.296 G-s	
PIP	.131 G-s		
PIV	.152 In/Sec	.230 G-s	
POH	.123 In/Sec	.345 G-s	
POP	.045 G-s		
POV	.099 In/Sec	.185 G-s	
POA	.126 In/Sec	.361 G-s	
1FD-P-001A - Boiler Feed Water 1A		(28-Jul-21)	
	OVERALL LEVEL	1K-20KHz	
MOH	.190 In/Sec	.465 G-s	3567.0 RPM
MOP	.045 G-s		
MOV	.190 In/Sec	.590 G-s	
MIH	.198 In/Sec	.176 G-s	
MIP	.089 G-s		
MIV	.166 In/Sec	.358 G-s	
MIA	.105 In/Sec	.235 G-s	
	OVERALL LEVEL	1K-20kHz	
NIA	.245 In/Sec	.469 G-s	
NIH	.107 In/Sec	.909 G-s	
NIV	.075 In/Sec	.861 G-s	
NOV	.114 In/Sec	.941 G-s	
NOH	.131 In/Sec	1.015 G-s	
NOA	.258 In/Sec	.237 G-s	
	OVERALL LEVEL	1K-20KHz	
BFA	.049 In/Sec	.286 G-s	
PIH	.062 In/Sec	.195 G-s	
PIV	.064 In/Sec	.119 G-s	
POV	.066 In/Sec	.078 G-s	
POH	.083 In/Sec	.169 G-s	
CT1 - CT Lube Oil Pump 1		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.047 In/Sec	.124 G-s	3570.0 RPM

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       MOP              .032 G-s
       MIH              .041 In/Sec       .149 G-s
       MIP              .052 G-s
       MIA              .040 In/Sec       .251 G-s

CTHYD !    - CT Hyd Pump 1                (28-Jul-21)
                      OVERALL LEVEL     1K-20kHz
       MOH              .125 In/Sec      1.707 G-s        1780.0 RPM
       MOP              .064 G-s
       MOV              .098 In/Sec       .724 G-s
       MIH              .059 In/Sec       .794 G-s
       MIP              .059 G-s
       MIV              .056 In/Sec      1.302 G-s
       MIA              .084 In/Sec       .634 G-s
                      OVERALL LEVEL     1K-20KHz
       PIH              .146 In/Sec      1.747 G-s
       PIP              .586 G-s
       PIV              .339 In/Sec      2.318 G-s
       PIA              .213 In/Sec       .518 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:      UNIT 2
              Report Date:  02-Aug-21   07:45

 MEASUREMENT POINT     OVERALL LEVEL       HFD / VHFD     EQUIPMENT SPEED
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 LP #2      - LP recirc unit #2            (28-Jul-21)
                      OVERALL LEVEL     1K-20kHz
       MOH              .061 In/Sec       .395 G-s        3565.0 RPM
       MOP              .079 G-s
       MOV              .073 In/Sec       .114 G-s
       MIH              .085 In/Sec       .827 G-s
       MIP              .394 G-s
       MIV              .134 In/Sec       .699 G-s
       MIA              .197 In/Sec       .253 G-s
                      OVERALL LEVEL     1K-20KHz
       PIH              .219 In/Sec       .400 G-s
       PIP              .171 G-s
       PIV              .105 In/Sec       .418 G-s
       POH              .079 In/Sec       .368 G-s
       POP              .197 G-s
       POV              .109 In/Sec       .231 G-s
       POA              .162 In/Sec       .406 G-s

 2FD-P-002A - Boiler Feed Water 2A          (28-Jul-21)
                      OVERALL LEVEL     1K-20KHz
       MOH              .147 In/Sec       .417 G-s        3567.0 RPM
       MOP              .204 G-s
       MOV              .135 In/Sec      1.967 G-s
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MIH	.171 In/Sec	.234 G-s		
MIP	.082 G-s			
MIV	.342 In/Sec	.190 G-s		
MIA	.201 In/Sec	.214 G-s		
	OVERALL LEVEL	1K-20kHz		
NIA	.412 In/Sec	.124 G-s		
NIH	.161 In/Sec	.140 G-s		
NIV	.105 In/Sec	.156 G-s		
NOV	.081 In/Sec	.234 G-s		
NOH	.126 In/Sec	.280 G-s		
NOA	.234 In/Sec	.263 G-s		
	OVERALL LEVEL	1K-20KHz		
BFA	.227 In/Sec	.127 G-s		
PIH	.120 In/Sec	.071 G-s		
PIV	.225 In/Sec	.099 G-s		
POV	.059 In/Sec	.104 G-s		
POH	.101 In/Sec	.059 G-s		

CT1 - CT Lube Oil Pump 1 (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.058 In/Sec	.230 G-s	3570.0 RPM
MOP	.078 G-s		
MIH	.053 In/Sec	.097 G-s	
MIP	.012 G-s		
MIA	.040 In/Sec	.447 G-s	

CTHYD ! - CT Hyd Pump 1 (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.075 In/Sec	.329 G-s	1780.0 RPM
MOP	.087 G-s		
MOV	.071 In/Sec	.509 G-s	
MIH	.026 In/Sec	.622 G-s	
MIP	.307 G-s		
MIV	.022 In/Sec	.607 G-s	
MIA	.041 In/Sec	.849 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.478 In/Sec	.0010 G-s	

ABF - Aux Boiler Fan (28-Jul-21)

	OVERALL LEVEL	1K-20kHz	
MOH	.134 In/Sec	.204 G-s	3550.0 RPM
MOP	.066 G-s		
MOV	.303 In/Sec	.153 G-s	
MIH	.053 In/Sec	.257 G-s	
MIP	.062 G-s		
MIV	.040 In/Sec	.256 G-s	
MIA	.147 In/Sec	.097 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: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
3CW-P-003 - CCW Booster Pump 1		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.072 In/Sec	.215 G-s	1775.0 RPM
MOP	.022 G-s		
MOV	.088 In/Sec	.335 G-s	
MIH	.058 In/Sec	.434 G-s	
MIP	.131 G-s		
MIV	.050 In/Sec	.394 G-s	
MIA	.074 In/Sec	.170 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.101 In/Sec	.384 G-s	
PIP	.047 G-s		
PIV	.067 In/Sec	.509 G-s	
PIA	.037 In/Sec	.139 G-s	
0CC-P-002 - CLosed Cooling Water 2		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.074 In/Sec	.371 G-s	1775.0 RPM
MOP	.038 G-s		
MOV	.038 In/Sec	.573 G-s	
MIH	.086 In/Sec	.237 G-s	
MIP	.077 G-s		
MIV	.033 In/Sec	.280 G-s	
MIA	.029 In/Sec	.243 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.184 In/Sec	.080 G-s	
PIP	.011 G-s		
POH	.100 In/Sec	.266 G-s	
POP	.145 G-s		
POV	.078 In/Sec	.325 G-s	
POA	.099 In/Sec	.608 G-s	
3CH-P-001A - Condensate Pump A		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.148 In/Sec	.177 G-s	1780.0 RPM
MOP	.028 G-s		
MOV	.140 In/Sec	.292 G-s	
MIH	.057 In/Sec	.218 G-s	
MIP	.061 G-s		
MIV	.045 In/Sec	.303 G-s	
MIA	.040 In/Sec	.225 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.035 In/Sec	1.641 G-s	
PIP	.846 G-s		
3CH-P-001C - Condensate PumpC		(28-Jul-21)	
	OVERALL LEVEL	1K-20kHz	
MOH	.347 In/Sec	.208 G-s	1780.0 RPM
MOP	.050 G-s		
MOV	.424 In/Sec	.433 G-s	
MIH	.248 In/Sec	.215 G-s	
MIP	.055 G-s		

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       MIV              .149 In/Sec       .349 G-s
       MIA              .099 In/Sec       .194 G-s
                      OVERALL LEVEL     1K-20KHz
       PIH              .053 In/Sec      1.047 G-s
       PIP              .416 G-s

3AE-P-002  - Vacuum Pump 2                (28-Jul-21)
                      OVERALL LEVEL     1K-20kHz
       MOH              .123 In/Sec       .413 G-s        1185.0 RPM
       MOP              .123 G-s
       MOV              .150 In/Sec       .299 G-s
       MIH              .166 In/Sec       .346 G-s
       MIP              .210 G-s
       MIV              .219 In/Sec       .169 G-s
       MIA              .151 In/Sec       .129 G-s
                      OVERALL LEVEL     1K-20KHz
       PIH              .190 In/Sec       .641 G-s
       PIP              .467 G-s
       PIV              .226 In/Sec       .710 G-s
       POH              .215 In/Sec       .693 G-s
       POP              .355 G-s
       POV              .364 In/Sec       .840 G-s
       POA              .211 In/Sec      1.111 G-s

STG1       - STG Lube Oil Pump 1          (28-Jul-21)
                      OVERALL LEVEL     1K-20kHz
       MOH              .052 In/Sec       .092 G-s        3560.0 RPM
       MOP              .017 G-s
       MOV              .097 In/Sec       .010 G-s
       MIH              .025 In/Sec       .035 G-s
       MIP             .0070 G-s
       MIV              .025 In/Sec       .043 G-s
       MIA              .103 In/Sec       .122 G-s

STGHyd1    - STG Hyd Pump 1               (28-Jul-21)
                      OVERALL LEVEL     1K-20kHz
       MOH              .063 In/Sec       .326 G-s        1770.0 RPM
       MOP              .102 G-s
       MOV              .064 In/Sec       .333 G-s
       MIH              .058 In/Sec       .554 G-s
       MIP              .134 G-s
       MIV              .070 In/Sec       .579 G-s
       MIA              .062 In/Sec       .250 G-s
                      OVERALL LEVEL     1K-20KHz
       PIH              .090 In/Sec      1.224 G-s
       PIP              .628 G-s
       PIV              .187 In/Sec       .552 G-s
       PIA              .165 In/Sec      1.045 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
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Area: WATER PUMPS AND VACUUM PUMPS
Report Date: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
OSW-P-001A - Service Water Pump 1A	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.048 In/Sec	.154 G-s	1780.0 RPM
MOP	.018 G-s		
MOV	.030 In/Sec	.249 G-s	
MIH	.060 In/Sec	.140 G-s	
MIP	.034 G-s		
MIV	.039 In/Sec	.249 G-s	
MIA	.052 In/Sec	.126 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.167 In/Sec	.963 G-s	
PIP	.360 G-s		
PIV	.205 In/Sec	.624 G-s	
POH	.178 In/Sec	.876 G-s	
POP	.336 G-s		
POV	.161 In/Sec	1.007 G-s	
POA	.213 In/Sec	3.305 G-s	
ORW-P-002A - Deep Well Pump A	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.245 In/Sec	2.315 G-s	1780.0 RPM
MOP	.487 G-s		
MOV	.141 In/Sec	3.062 G-s	
MIH	.087 In/Sec	1.070 G-s	
MIP	.152 G-s		
MIV	.075 In/Sec	1.096 G-s	
MIA	.104 In/Sec	1.527 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.045 In/Sec	.391 G-s	
PIP	.183 G-s		
ORW-P-001B - Deep Well Pump B	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.143 In/Sec	.097 G-s	1780.0 RPM
MOP	.049 G-s		
MOV	.131 In/Sec	.092 G-s	
MIH	.044 In/Sec	.069 G-s	
MIP	.046 G-s		
MIV	.045 In/Sec	.062 G-s	
MIA	.029 In/Sec	.108 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.031 In/Sec	.050 G-s	
PIP	.027 G-s		
ORW-P-001C - Deep Well Pump C	(28-Jul-21)		
	OVERALL LEVEL	1K-20kHz	
MOH	.157 In/Sec	.501 G-s	1780.0 RPM
MOP	.281 G-s		
MOV	.134 In/Sec	.801 G-s	
MIH	.073 In/Sec	.996 G-s	
MIP	.491 G-s		

MIV	.074 In/Sec	.894 G-s	
MIA	.034 In/Sec	.893 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.035 In/Sec	.537 G-s	
PIP	.200 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: Chiller Module 1
Report Date: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
TWP 101 - Chiller Cooling Tower Pump 1 (28-Jul-21)			
	OVERALL LEVEL	1K-20kHz	
MOH	.074 In/Sec	.707 G-s	1185.0 RPM
MOP	.204 G-s		
MOV	.065 In/Sec	1.316 G-s	
MIH	.049 In/Sec	.298 G-s	
MIV	.066 In/Sec	.379 G-s	
MIA	.050 In/Sec	.401 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.048 In/Sec	.253 G-s	
PIP	.164 G-s		
CHWP 102 - Chilled Water Pump 2 (28-Jul-21)			
	OVERALL LEVEL	1K-20kHz	
MOH	.127 In/Sec	.469 G-s	1780.0 RPM
MOP	.044 G-s		
MOV	.112 In/Sec	.354 G-s	
MIH	.092 In/Sec	.299 G-s	
MIP	.015 G-s		
MIV	.117 In/Sec	.170 G-s	
MIA	.042 In/Sec	.210 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.065 In/Sec	.133 G-s	
PIP	.012 G-s		
PIV	.066 In/Sec	.077 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: Chiller Module 2
Report Date: 02-Aug-21 07:45

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD	EQUIPMENT SPEED
TWP 202 - Chiller Cooling Tower Pump 2 (28-Jul-21)			
	OVERALL LEVEL	1K-20kHz	
MOH	.101 In/Sec	.985 G-s	1185.0 RPM
MOP	.450 G-s		
MOV	.087 In/Sec	1.582 G-s	
MIH	.063 In/Sec	.344 G-s	
MIV	.076 In/Sec	.484 G-s	
MIA	.051 In/Sec	.341 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.052 In/Sec	.388 G-s	
PIP	.240 G-s		
PIV	.062 In/Sec	.317 G-s	
CHWP 202 - Chilled Water Pump 2 (28-Jul-21)			
	OVERALL LEVEL	1K-20kHz	
MOH	.096 In/Sec	.569 G-s	1780.0 RPM
MOP	.026 G-s		
MOV	.089 In/Sec	.236 G-s	
MIH	.047 In/Sec	.206 G-s	
MIP	.021 G-s		
MIV	.063 In/Sec	.278 G-s	
MIA	.035 In/Sec	.145 G-s	
	OVERALL LEVEL	1K-20KHz	
PIH	.038 In/Sec	.098 G-s	
PIP	.035 G-s		
PIV	.036 In/Sec	.115 G-s	

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

Abbreviated Last Measurement Summary

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