THE FACILITY FILES

By Amanda Parolise

Pump: P2-1

Model: XYZ SHWP Size: 310gpm Hp: 15 Volts: 460/3/60 Parolise is project manager consultant with BuildingSmart Software LLC. Reach her at **amckew@yahoo.com.**

CARBON FOOTPRINT

Carbon Neutral

Date: August 2013 Building: Mechanical Room Floor: Basement Year Installed: 1977 Inspected By: AEM Serial Number: 0111123 Equipment Type: Secondary Hot Water Pump Manufacturer: X-Y-Z

EXISTING CONDITIONS AND DEFICIENCIES

Y	Ν	NA		Y	Ν	NA	
			HVAC		Ľ		All ATC devices appear in good condition?
Ľ			Pump in good condition?	V			ELECTRICAL
	1		Is there sufficient head?	Ľ			Is a high-efficiency motor installed?
1			Is pressure testing of pipe distribution complete?	Ľ			Is there a localized disconnect?
	1		Is the pump/piping system leak-free?		1		Does the pump have a VSD?
	1		Pressure differential installed around pump into one gauge?				PLUMBING
			Is the insulation installation complete?				Are there localized drains near the equipment?
4			Equipment and piping labeled with applicable tag and flow arrows?				MAINTENANCE
1			Flow sensors installed and monitoring flow?		1		System flow diagram mounted by unit?
	1		Temperature sensors installed and functioning?		1		O&M manual secured at unit or on file?
1			Is the piping installed per detail?	Ľ			Work order last completed?
Ľ			Is there access around equipment?	Ľ			Is there a service contract for the pump?
			Is there any excess vibration at the pump?				

END OF EQUIPMENT USEFUL SERVICE LIFE (USL)

USL (YRS)		USL (YRS)	
36	Motor is 36 years old.	20	Motor USL benchmark - 20 years.
36	Controls are 36 years old.	16	Controls USL benchmark - 16 years.
36	Unit is 36 years old.	16	Unit USL benchmark - 16 years.

STANDARDS AND CODE ISSUES

Y		Ν	NA		Y	Ν	NA	
				Does unit meet current codes?				Does unit/system meet current energy code?
	I	2		Is emergency power a requirement?				

ENERGY CONSERVATION

Y	N	NA		Y	N	NA	
		1	End of USL, replace with new VSD high-efficiency pump?			M	Consider thermal ice storage?
		1	Can unit/system be retrofitted to meet latest energy code?			Ľ	Consider DDC, optimize control system management.
		1	Consider waterside economizer?				

NOTES

Y	Ν	NA		Y	Ν	NA	
1			1. Can equipment be readily renovated?	Ľ			4. Are unit controls interactive with building ATC/computer?
1			2. Unit basically operates 24-7 year-round.	Ľ			5. Are there energy meters (gpm, etc.)?