



CARBON FOOTPRINT

- Carbon Neutral
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HUMIDIFIER Assessment Checklist

Date: February 2010
Building: Historical library
Floor: Rooftop
Year installed: 1978
Inspected by: A. McKew, InterPro Solutions
Serial number: 11111
System type: Horizontal draw-through
Manufacturer: XXXXX
Model: XXXXX
Size: XXXXX
Hp: 10
Volts: 208/3/60

EXISTING CONDITIONS AND DEFICIENCIES

- HVAC** [Y] [N] [N/A]
- Is there safe/proper access for maintenance?
 - Is the humidifier installed per details/drawings?
 - Are humidifier manifolds installed?
 - Is the access and view port installed?
 - Was the correct duct material (e.g., stainless) used?
 - Is ductwork insulated?
 - Is the ductwork labeled?

- ATC** [Y] [N] [N/A]
- Are ATC connections complete?
 - Are ATC connections labeled?
 - Is the ductwork humidity sensor installed?
 - Is the humidity high-limit switch installed?

- O&M** [Y] [N] [N/A]
- Is the system flow diagram mounted by unit?
 - Is the O&M manual secured at unit or on file?
 - Was the last workorder completed?
 - Is the scheduled data available?
 - Is the equipment and system training complete?
 - Is warranty information listed or on file?
 - Is PM workorder in place?
 - Is scheduled maintenance in place?
 - Is service contract information listed or on file?

- Piping** [Y] [N] [N/A]
- Is piping installed per details/drawings?
 - Is city water makeup piping installed?
 - Is backflow preventer installed?
 - Are isolation valves installed?
 - Are strainers installed?
 - Is piping insulated?

- Electrical** [Y] [N] [N/A]
- Are electrical connections labeled?
 - Is the disconnect switch installed?
 - Are electrical connections complete?

END OF EQUIPMENT USEFUL SERVICE LIFE (USL)

Year		Year	
1978	Motor is 31 years old	15	USL benchmark
	Controls are 16 years old	16	USL benchmark
	Coils are 31 years old	20	USL benchmark

- STANDARDS AND CODE ISSUES** [Y] [N] [N/A]
- Does unit have economizer cycle?
 - Does unit have duct smoke detectors (SA, RA, EA)?
 - Is unit up to current health care design guidelines?

- ENERGY CONSERVATION** [Y] [N] [N/A]
- Are there energy meters (run-time, etc.)?
 - Consider constant volume system retrofit to VAV?
 - Consider a more energy efficient alternative?
 - Consider double duct system retrofit to dual fan/double duct?
 - Can unit/system be retrofitted to meet latest energy code?
 - Consider replacing pneumatics with DC?

- NOTES**
- Can unit be readily removed/replaced? Yes.
 - Does unit operate 24/7 year-round or seasonal? No. Set occupied/unoccupied scheduling to be implemented.
 - Are unit controls interactive with building ATC/computer? Yes. Add trending data for humidity setpoints and readings, discharge air temp." **ES**



McKew is a senior project engineer with InterPro Solutions. Reach her at amckew@interprosoft.com.