## TheFacilityFiles

BY AMANDA MCKEW

# AIR TERMINAL DEVICE

Date: August 2012

Building: Residential central hot water system Floor: Basement Year installed: 1986 Inspected by: AEM Serial number: 111010293 Equipment Type: Cast iron boiler Manufacturer: X-Y-Z Model: CB-111 Size: 200 MBtuh Volts: 120/1/60

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CARBON FOOTPRINT

**EXISTING CONDITIONS AND DEFICIENCIES** 

Y	N	NA		Y	N	NA	
			HVAC		2		Overall, unit is clean, no vibration, or noise?
Ľ			Is the unit installed per details?	Ľ			All ATC devices appear in good condition?
	<b>1</b>		Is the piping insulation complete and in good condition?		Ľ		Is the domestic hot water system in good condition?
Ľ			Is there asbestos in the heating system?		Ľ		Are circulators in good conditions with no leaks?
	2		Are there sufficient working pressure gauges?				ELECTRICAL
	V		Are there sufficient temperature sensors?		R		Is the motor a high-efficiency model?
			Are temperature sensors reading accurately?		M		Is there a localized disconnect?
V			Are there signs of leaks in water, fuel, or combustion exhaust?		V		Does the unit have VSD pump? N/A
			Are there valve tags and a valve chart?				PLUMBING
V			Are drain lines piped directly to drains?	2			Are there localized drains to serve the unit?
			In states involution is see all condition 0				
			Is piping insulation in good condition?				Is there water make-up w/backflow preventer?
			Is piping insulation in good condition? Is flue and breeching insulation in good condition?				Is there water make-up w/backflow preventer? Are gas vents piped to outdoors?
4			Is flue and breeching insulation in good condition?	Ľ			Are gas vents piped to outdoors?
			Is flue and breeching insulation in good condition? Is barometric damper in good condition?	Ľ			Are gas vents piped to outdoors? Is the city water PRV in good condition?
2			Is flue and breeching insulation in good condition? Is barometric damper in good condition? Is there a combustion air source?	2 2			Are gas vents piped to outdoors? Is the city water PRV in good condition? MAINTENANCE
ଟ ଟ ଟ			Is flue and breeching insulation in good condition? Is barometric damper in good condition? Is there a combustion air source? Is the room under negative pressure?	2 2 2			Are gas vents piped to outdoors? Is the city water PRV in good condition? MAINTENANCE System flow diagram mounted by unit?

#### END OF EQUIPMENT USEFUL SERVICE LIFE (USL)

USL (YRS)		USL (YRS)		
25	Cast iron section boiler is 26-yrs-old	20	Controls are 26-yrs-old	
20	Domestic hot water tank and receiver are 26-yrs-old			

#### STANDARDS AND CODE ISSUES

Y	N	NA		Y	N	NA	
1			Does unit meet current codes?	Ľ			Does unit/system meet current energy code?
			Is emergency power a requirement?				

#### **ENERGY CONSERVATION**

Y	N	NA		Y	N	NA	
			End of USL, replace with higher-efficiency unit (condensing boiler?)			ľ	Consider occupied/unoccupied modes
		Ľ	Can unit/system be retrofitted to meet latest energy code?			Ľ	Consider domestic hot water system

NOTES

Y	N	NA		Y	N	NA	
			1. Can unit be readily removed/replaced/renovated?				3. Are unit controls interactive with building ATC/computer?
V			2. Does unit operate 24/7, year-round, occupied/unoccupied, or seasonal?	<b>V</b>			4. Are there energy meters for (gpm or electrical) consumption?