APPENDIX G

Estimated Costs for retrofitting typical* home built in 1970 to current Title 24 requirements

Description	Title 24	Installed at build-out	Cost to upgrade
			unknown; wallboard or
Insulation			siding would need to be
Walls	R-13 min (standard is R-19)	R-11	removed
Insulation Attic	R-19 min (standard is R-38)	R-13	\$500
Air			
conditioning	13 Seer low energy	not rated	\$4,000
Tight ducts,			
insulated	R-4.2 insulation, no leaks	Metal or perf. Flex	\$1,000
	Weather stripping, caulk,		
Air infiltration	sealants	Door W/S	\$500
	(all pipe penetrations, vents, etc.)		
Windows	Vinyl, low-E, dual-glazed	Alum., single glazed	\$6,000
Screens	tight-mesh, nylon or wire	wire, open mesh	\$400
	low energy bulbs, some required	incandescent, manual	
Lighting	on-off	controls	\$300
	sensors, fluorescent fixtures in		
	some rooms		
	no pilots, new efficiency	cont. burning pilots, no	
Heating	requirements	e-rating	\$2,.500
Hot water	no pilots, new efficiency	cont. burning pilots, no	
heater	requirements	e-rating	\$400
	R-12 insulation	no insulation	
	insulated piping, low-flow	galv, piping, no rated	
Water	fixtures,	fixtures	\$1,200
Air controls	auto set-back t-stat	no rating	\$100
	platforms not used as plenum,	platforms used as	
Air handler	must have	plenum	\$300
	ducts		
		Total	\$14,700

* 1,800 sq, ft. framed, stucco exterior, comp. roof

Estimate Provided by Jim Marks, General Manager, The Cirrus Company and Heritage Management Group. July 2011.