APPENDIX C

QUALITY FUNCTION DEPLOYMENT, QFD
(House of Quality)

Brocco-Matic

Gold Coast Packing, Inc.
Requirements (Whats)

			Engineering Requirements (HOWS)																		Benchmarks	
		Weighting (Total 100)	fits in 8' x 12' space	stem width .75" - 1.25"	stem length 1" - 3.5"	floret diameter 2.25" - 3.75"	production 4500+ lb/hr	FDA approval	stainless steel	run time 16 hr/day	cold chlorinated filtered water	touch screen display	warning lights and sensors	emergency shut-off	programed logic controlers (PLC)	water jet cutter	one or two buttons	broccoli holding conveyor	blade system	pneumatic steel fingers	high pressured air to break apart	Eagle Resources	Workers picking through by hand
Customer Requirements (Step #2)	uniform size finished product*	9.0909		3	3	9	1								9	3		3	9	3	9	2	3
	cut quality (16 day shelf life)*	4.7619					1	9	1	1	9	1	1			3		3	9	9	9	3	4
	4500 lb/hr*	5.6277				1	3	3			3				9	9		9	3	3	1	2	3
	reliable*	5.1948	1				9		3	9	3	3	9		9	9	3	1	1	3	9	4	3
	compact design to integrate with facility	0.4329	9				1											3			3	4	1
	no foreign material in food*	6.9264					3	9	3		3					9			9	9	9	2	3
	food grade quality materials*	6.4935						3	9		9					3		3	9	9	9	2	3
	automatic cutting*	8.658							1	1	3	3	1	9	9	9	3	9	9	9	9	3	1
	machine protection warning lights	2.5974					9			3	1	9	3	1	9	9	1		3	1	3	1	1
	easy to opperate w/ simple user interface	4.329					9					9	3	3	9	1	9		1	1	1	5	2
	adjustable for different sized florets*	8.2251		9	9	9						3						9	9	3	3	1	4
	easy to clean and sanitize	3.8961						9	9		3			3					3	3	9	2	2
	automatic shut-off for cutting device door*	7.7922						3		3		3	9	9	3				9	3	3	1	1
	safety guards*	7.3593					3						9	9	3	9			9	9	9	3	1
	high speed	2.1645					9						3	9	9	9		9	1	3	1	3	2
	minimize labor	0.8658					9			9							3	9	3	9	3	2	1
	moisture resistant	3.4632						3	9					3	9				1	1	1	3	4
	sealed heavy duty motors	3.0303					3	9		9			9	9	9	3		9	1	3	9	1	1
	temperatures between 28-80 degrees F	1.2987								3						3		1			3	4	3
	few moving parts	1.7316					3		1	9			1	3	3	1	9	3	3	9	9	4	1
	emergency kill switch*	6.0606												9		3	3	9	9	3	1	2	1
	100																						
	Units																						
	Targets																						
	Eagle Resources		5	2	3	1	2	5	5	3	1	1	1	1	1	1	5	1	4	1	5		
	Workers picking through by hand		5	3	3	4	5	5	1	5	4	1	1	1	1	1	1	4	1	1	3		

● = 9	Srong Correlation
○ = 3	Medium Correlation
Δ = 1	Small Correlation
Blank	No Correlation