

CD Computer Room Infrastructure Limits and Costs									
	FCC1/2	GCC(A)	GCC(TR)	GCC(B)	LCC(108)	LCC(107)	FCC Upgrade	Monsanto Greenfield Site	"ACME"
Total Power KW	678	840		840	500	550	not designed		78
Total Cooling KW	790	720		840	200	550			78
Total Sq Ft	16,000	2,200	2,300	2,300	1,500	3,000		40,000	1,120
Rack Space Sq Ft	3,200	432		504	192	312		8,000	120
Max Racks	533	72		84	32	52		1333	20
Avg Rack Power Density KW	1	10		10	6.25	11			4
Cost to Build \$M	10	2.2	0.675	2.9	0.4	1		21	0.35
Cost \$K per Sq Ft to Build	0.6	1.0	0.29	1.3	0.3	0.3		0.53	0.3
Cost \$K per Sq Ft/ 3 Yrs	0.21	0.33	0.10	0.42	0.1	0.1		0.18	0.1
Cost \$K per Rack Space	19	31		35	13	19			18
Floor Space Watts/Sq Ft	42	327		365	133	183			70
Rack Space Watts/Sq Ft	212	1667		1667	1042	1763			650
Cost to Build \$K/KW	15	3		3	2	2			4
Facilities Maint \$K/Yr	150	70		70	20	40			60
CDO/OPS FTE	1.00	0.50	0.10	0.50	0.25	0.25			1.00
Sysadmin									
Networking									
	FY05	FY06	FY07						
Elec \$/KW- HR	0.048	0.052	?						
Upgrades	FY02	FY03	FY04	FY05	FY06	FY07	Total		
FCC Gen/UPS	3.5								
FCC add 2 100 KVA UPS		0.5							
FCC ICW pipe replace		0.3							
GCC CRA				2.2					
GCC CRB					2.9	1.8			
GCC Tape Robot room					0.675				
GCC CRC						2			
Add Elec	0.1	0.1	0.1	0.1	0.1	0.1			
Total	3.6	0.9	0.1	2.3	3.7	3.9	14.5		