	F	Power Buc	lget				
Team Number:	106	5					
Project Name:	Automatic Plant Care System						
Team Member Names:	Jon San Vicente						
Version:	1	L					
All Major Components	Component Name	Part Number	Supply	#	Absolute	Total	Unit
	Curiosity Nano	PIC18F57Q43	1.7V -5.1V	1	500	500	mA
	MOSFET	AOTF2618L	0V - 60V	1	200	200	mA
+12V Power Rail	Component Name	Part Number	Supply	#	Absolute	Total	Unit
							mA
							mA
							mA
							mA
							mA
					Subtotal		mA
			Total Current	t Require	Safety Margin ed on +12V Rail	25% 0	mA
				_			0
		<b>7</b> / 1 <b>9</b>			1 101/5 //		mA
+5V Power Rail	Component Name	Part Number	aining Current Supply	t Availab #	ole on +12V Rail Absolute	Total	mA <b>Unit</b>
TOV FOWEI Rail	Curiosity Nano	PIC18F57Q43	1.7V -5.1V	1	500	500	
	Curiosity Ivario			1	200		mA
	MOSFET	AOTF2618I	()\/ - h()\/			/[	
	MOSFET	AOTF2618L	0V - 60V	l I	200		
	MOSFET	AOTF2618L	00 - 600	ı	200	0	mA
	MOSFET	AOTF2618L	UV - 6UV		200	0	mA mA
	MOSFET	AOTF2618L	UV - 6UV	1	Subtotal	0	mA mA mA

			Total Curre	ent Requir	ed on +5V Rail	875	mA
c2. Regulator or Source Choice	+5V Regulator	LM7805T	5V - 18V	1	1000	1000	mA
		Total Rem	aining Curre	ent Availab	ole on +5V Rail	125	mA
·5V Power Rail	Component Name	Part Number	Supply	#	Absolute	Total	Unit
	_					0	mA
						0	mA
						0	mA
						0	mA
					Subtotal	0	mA
					Safety Margin	25%	
			Total Curr	ent Requir	red on -5V Rail	0	mA
							mA
	Total Remaining Current Available on -5V Rail						mA
+3.3V Power Rail	Component Name	Part Number	Supply	#	Absolute	Total	Unit
							mA
						0	, .
					Subtotal	0	
					Safety Margin	25%	
			Total Curren	t Required	I on +3.3V Rail	0	mA
							mA
		Total Rema	aining Curre	nt Availab	le on 3.3V Rail	0	mA
C. For each power rail above, s	elect a specific voltage re	egulator using the sa	me process	as for ma	jor component se	election. Con	f <mark>irm tha</mark>
External Power Source 1	Component Name	Part Number	Supply	Output	Absolute	Total	Unit
Power Source 1 Selection	Plug-in Wall Supply	(full part number)	110VAC	+24V	5000	5000	mA
Power Rails Connected to						0	mA
External Power Source 1	+5V Regulator	LM7805T	5V - 18V	1	1000	1000	mA
External Fower Course F						0	mA
	Total F	Remaining Current A	vailable on E	External P	ower Source 1	4000	mΑ

External Power Source 2	Component Name	Part Number	Supply	Output	Absolute	Total	Unit	
	·					500	mA	
						_		
						0	mA	
	Total	Remaining Current	Available on l	on External Power Source 2 500				
	Component Name	Part Number	Supply		Capacity	Required		
			11.5		. 0	. 0		
					Battery Life	0	hours	
lotes								

[1] For inductive loads (e.g., motors, solenoids) this is often called "stall current" on the data sheet