Sensor Box Project Production Plan

## Sensor Box Project – Overall Production Plan

Machining, Electrical Preparation, and Mechanical Assembly

Ва	tch Size: Start Date:	End Date:
1.	Machining (Stainless Steel)	
	Mill stainless steel back plates to final length	
	Drill 4 holes per plate for solar panel bracket	
	Tap 4 holes per plate for stainless steel cross members	
	Drill 2 mounting holes per solar panel bracket (for 50 brackets)	
	Drill holes in box for sensors and the solar shield	
2.	Electrical Preparation	
	Solder 50 headers for RTC modules	
	Solder 50 headers for SD modules	
	Solder 50 headers for ADC modules	
	Solder header pins for Arduino boards	
	Solder peripheral components on PCB (resistors, MOSFETs) $$	
	Solder female receiver headers	
	Solder screw terminals	
	Connect and test all sensors (sound, temperature/humidity, etc.)	)
3.	Mechanical Assembly	
	Assemble internal and external brackets and standoffs	
	Mount PCB and sensors securely in each enclosure	
	Apply silicone, Loctite, and fix fasteners as required	
	Perform shake test and visual confirmation	
	Verify all sensor cables are neatly routed and secured	
Final Approval: Supervisor Initials:		