MEETING MINUTES

Meeting #: General Description

Meeting Date: 9-11

Meeting Time: 5:30pm - 7:00pm

Attendees: Aaron, Gia, Logan, Michelle

Table 1: Meeting Minutes				
Lit Re	view Topics: Align with technical roles (all)			
1.				
	Gia			
2.	Fans (Power, Air flow in different shaped rooms, does the			
	filter come in the fan?) - Aaron			
3.	Filters (Particle counting, HEPA filters) - Michelle			
II I	Modular Truss/Support Structures (collapsible structure) -			
	Logan			
SOTA	SOTA Review: Gia			
1.	Portable/modular cleanrooms			
Custo	Customer Needs: Logan/Michelle			
1.	Modular/Collapse			
2.	Spacious			
3.	Room connectability (attach clean and gown room)			
4.	Compliant storage			
5.	Fan HEPA			
6.	Generator connection to fan			
7.	Alcohol safe materials			
Techn	iical Needs: Logan/Michelle	ENG 314		
II I	Positive pressure	LING 311		
II I	Dimensions (10x10) or (10x20)			
	Particle counts (Level 7 CR)			
4.	FFU power requirement			
5.				
6.	1 11-20 12-12-12			
II I	Temperature/pressure readout (20-25 C)			
II I	Load bearing N?			
II I	Mathematical Modeling: All			
II I	Material Analysis			
2.	Positive Pressure (Thermodynamics Analysis)			
_	What wall "structure" would be best			
3.	Fluid Analysis (Air Flow)			
-	Different fan locations			
	Mass flow rates through exits			
4.				
-	10x10 or 10x20 – can a 10x20 be used without supports?			
-	Rigidity/stiffness requirements – does outside loads			
	displace the structure?			

5. E	Electrical	Load	Anal	ysis:
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- Spreadsheet for all the currents and voltages and power that are in the cleanroom. Determine the size of battery that would be needed to run the system in a power outage
- UPS System that charges itself offline and can last a couple of hours

Questions for Becker:

- Power available for the fans
- Other loads inside for power?
- Hanging loads from the walls/ceiling?
- Electrical and mechanical loads?
- Rigidity requirements?
- External point load required?
- Biomedical club for fundraising?
- NAU or Becker owned?
- If other people are going to use the cleanroom can they match the 10% funding?

Table 2: Action Items for Next Meeting

Action Item	Person Assigned	Due Date