	1-Needs More	2	3 - Good	4	5 - Excellent
Task organization and completion.					
☐ Clear re-statement of deliverables? Refined from IPR1? Show both.					
☐ Does list of deliverables reflect those stated in handout?					
☐ Evidence that task organization has been effective?					
☐ Evidence that major portions of design are near completion?					
☐ Evidence of iterative design steps?					
Reactor design.					
☐ Modelling of reactor in ChemCAD complete?					
☐ Has catalyst mass been calculated?					
☐ Has heat duty and mitigation been established					
☐ Has a realistic pressure drop been incorporated?					
☐ Design drawing showing configuration of the reactor?					
Separator design.					
☐ Correct number of splits been incorporated into design?					
☐ Includes method to remove the water?					
☐ Distillation columns and flash units sized?					
☐ Are the reboilers and condensers sized?					
$\hfill \square$ Ancillary pumps, compressors, and turbines included?					
Literature review.					
$\hfill \square$ What are the TCIs and capacities for other plants already built, in 2016 dollars?					
☐ Calculated preliminary plant cost of their plant from scaling existing plant(s)?					
☐ Shows electron-pushing organic chemistry mechanism of FT reaction?					
☐ Shows citations for mechanism from chemical journals?					
☐ Making use of important chemical engineering design references?					
Quality of PowerPoint briefing.					
☐ Are slides organized and clear?					
☐ Was the number of slides appropriate for a 15 minute briefing?					
☐ Did the cadets each speak clearly with correct grammar?					
☐ How did the cadets respond to questions?					
☐ Did all group members play a significant role?					
Process Design					
☐ TCI of HI, SU, and ASP? Utility costs complete?					
☐ Estimate of labor costs complete?					
□ Preliminary I/O analysis complete?					
☐ What is the cost of the reactor and catalyst?					
☐ What is the cost of each unit in the separator train?					<u> </u>
Notes:					
Total Scara:					
Total Score:					
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