**IME 408 Homework 5; Due September 3**

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**FOR THE FOLLOWING QUESTIONS – PLEASE REFER TO THE HOLOLULU PROJECT!!!**

**SAJPH Calculations**

Trim 1; 65.66 SAJPH

Trim 2; 60.3 SAJPH

Chassis 1; 61.75 SAJPH

Chassis 2; 50.7 SAJPH

Final 1; 59.85 SAJPH

Final 2; 59.85 SAJPH

1) If we automate Chassis 2 and improve the SAJPH output by 20%; What would be new SAJPH of Chassis 2??

= \_\_\_50.7\_\_ SAJPH \* 120% = 60.84 SAJPH

b) Where would be the new Bottleneck? Where would it be??

Final 1 and Final 2

c) What percent improvement would we expect to see at the Paypoint?

= (59.85 (Final1/2) – 50.7(Ch2))/50.7 = \_18%\_\_ IMPROVEMENT at the End of Line PayPoint.

d) Why would we not see the “Full Benefit” of this potential improvement in Chassis 2?

We would see the benefits on Chassis 2 until a new bottleneck would arise. In this case Final 1 and Final 2 would become the bottleneck once Chassis 2 surpasses 59.85 SAJPH.