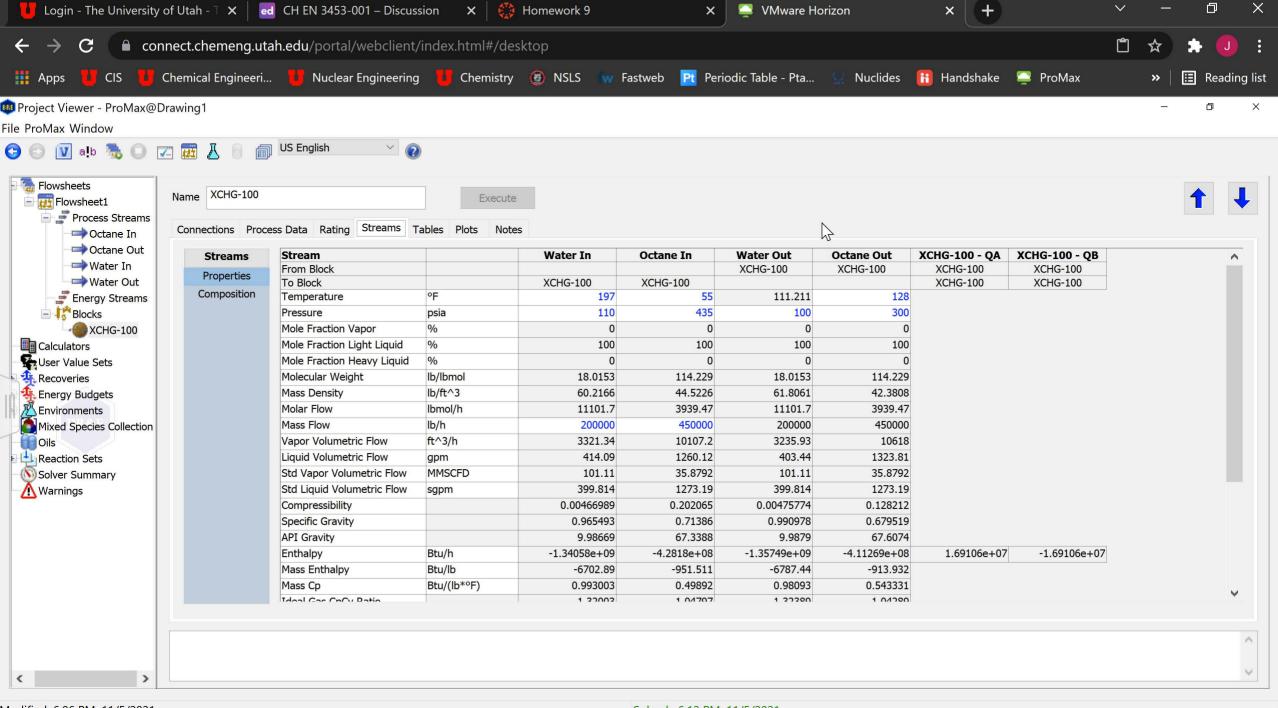
Josh whitehead CLF_ 3453 Page 1 |a| 200 Hot 150 Hwy (00 -) 150 9; 100000 - 1.000 (200-150) = 5005000 Btu 92 = m (| to=T;) 7 To=T; + 92 = 100 + 5005000 = 15005 9 = UA DTL 100/200 ___ 150/005 7 DTL = 100-0.05 : A = 9 - 5005000 | DT1 = 49.98 °F 150.05 150 9= mCDI 5 200,5000 BAN To = T; + 9 = 150.05 DIT : Thosy /20'02 120 = 20° t

4 = 4 = 100000 - 80 = 250.2 Et

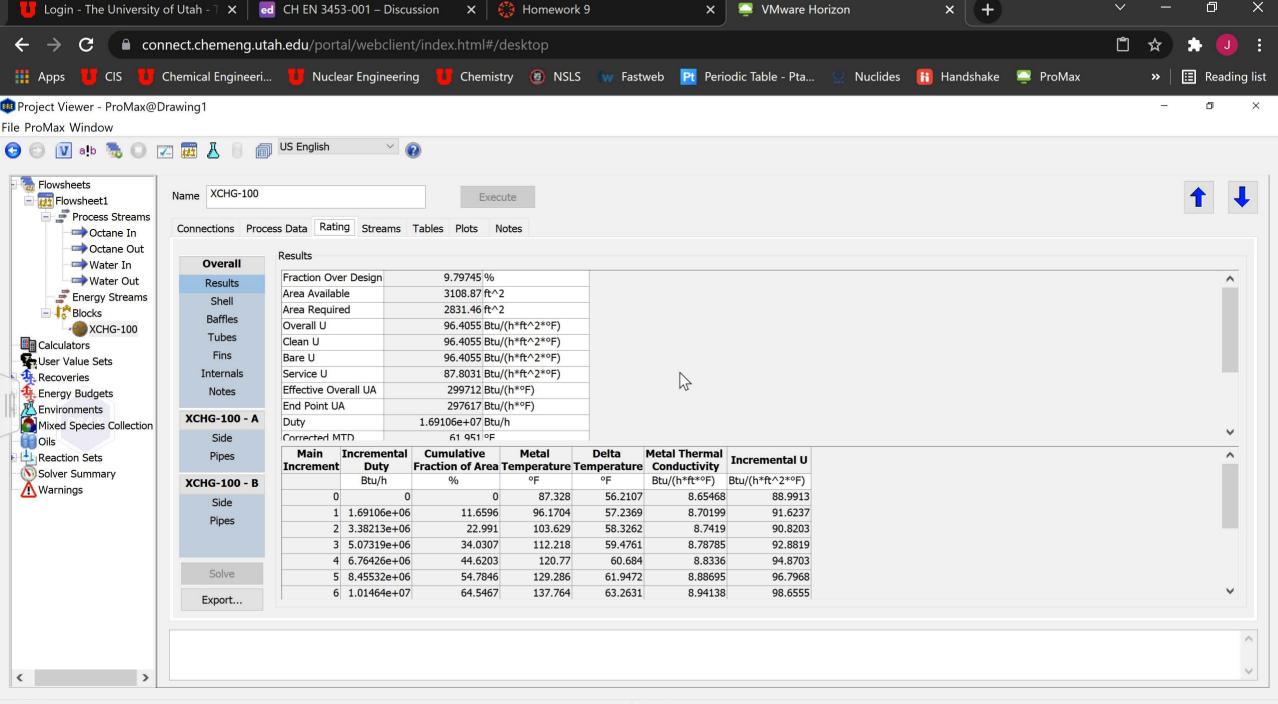
Josh whiteheal ChE 3453 Pase 2 2/3/ 92 mcst q2 uAsten MCDT = NADTL > DTL = -CDT = 20000.0.5.80 DIm = 56,67 = (180-x) - (100-80) = 1x = 14 2.3 oF 180 ____ 100 Rein 2000306 2325817 1 500 C = 90+20 Renz DAV : 0.025.998.4 2200200.8 > Turbulent M K Nuz 0.023 Re41/5 . Pr = 0.4 = 0.023 . 200200 4/5 . 3.15 Pr NM = 634 - 4 m= 634.0.62 - 1848 - 1848 - 1848 Re 0:1 - (0.0375-0.025-0.0008). 865.8.7 - 848 -> Laminar :. Nu~5.45 -> hon- 6.141.5.45 u= 1 = 65.4 = k

Josh Whitehead Chen 3453 5) a) Exit T for water: [T: 111.2°F]

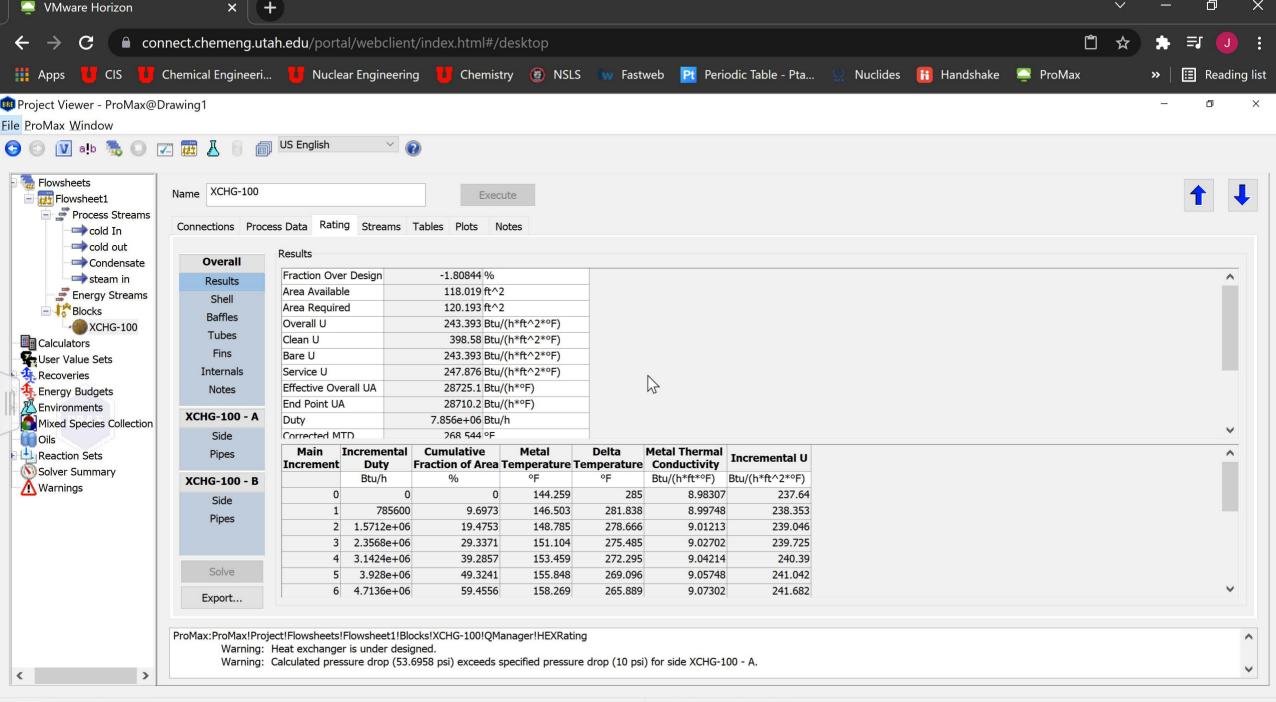
b) over sesion Factor: [9.80°10] 6. a Steam flow rate: 8687.6 Lb b) over sesy Factor: -1.80% Pressure DP+uses not acceptable -> Specified: 10 Calculated = 53 DPsnen is acceptable · " pues - 6000 2 19 · 19 6 50 50 50 600 E-8-12 - E. 11:08 . (80100-1201-164-101). \$ 00 C-3500 - 1720



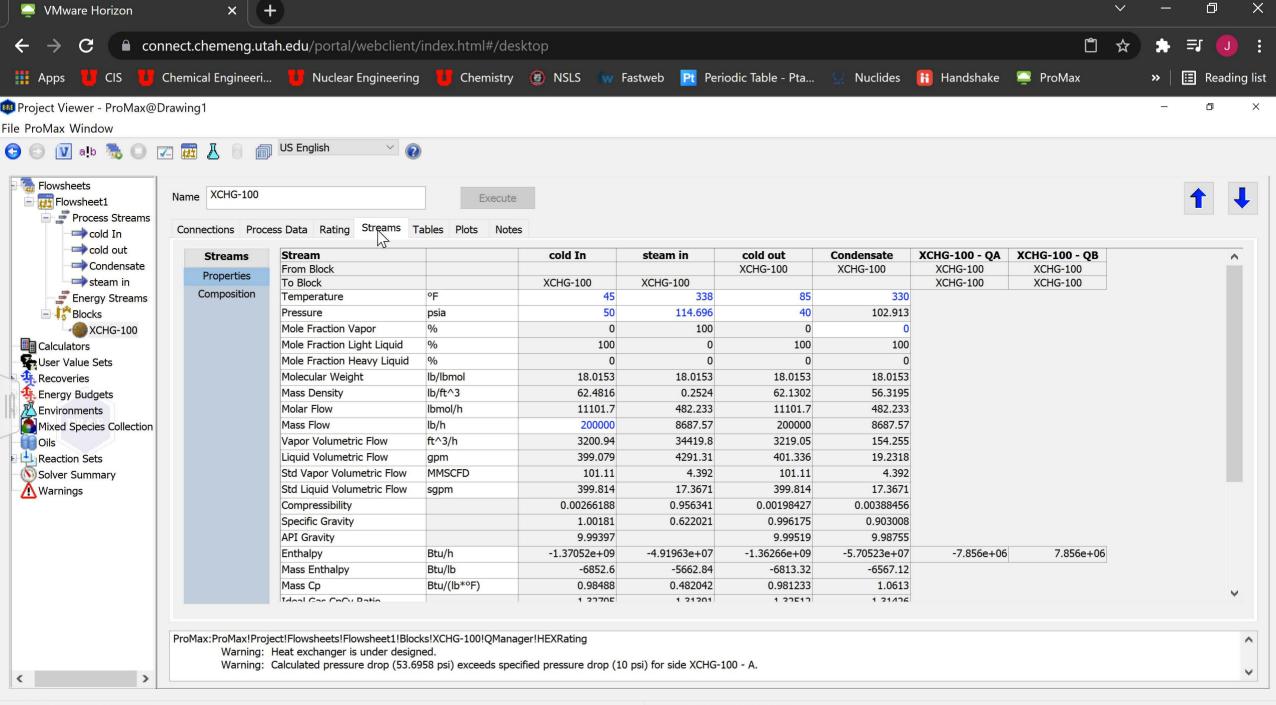
Modified: 6:06 PM, 11/5/2021 ______Solved: 6:12 PM, 11/5/2021



Modified: 6:06 PM. 11/5/2021 ______Solved: 6:12 PM. 11/5/2021



Modified: 7:00 PM, 11/5/2021 ______Solved: 7:02 PM, 11/5/2021



Modified: 7:00 PM, 11/5/2021 ______Solved: 7:02 PM, 11/5/2021