

T = 90 (2) P = 380 X = 1  T = 454.92 P = 360 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 248 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1  T = 239.69 P = 249.3 X = 1	T = 239.69 P = 248 X = 1 Water outlet  T = 140 P = 359.1 Signer 10 T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 P = 360.3 X = 0 To CO2 Removal  T = 248.91 To CO2 Removal  T = 248.91 To CO2 Removal  T = 248.91 To CO2 Removal	T = 401 P = 355.3 X = 0  V.2 (18) P = 138.3 V.2 (19) P = 355.3 X = 0  V.2 (18) P = 138.6 P = 135.3 Y = 0  V.2 (18) P = 138.6 P = 131.3 P = 135.8.6 P = 131.3 P = 131.3 P = 135.8.6 P = 131.3 P = 131.3 P = 135.8.6 P = 131.3 P = 131.3 P = 135.8 P = 131.3 P = 112.3 P = 110.3 P = 138.8 P = 135.8 P = 1	To wastewater treatment  M-3  M-3  Q = -89.28  T = 447.66  T = 100  T = 100  T = 100  P = 19.03  P = 17.03  P = 19.03  T = 344.91  P = 196.3  X = 0  Restrictions  Restrictions  Restrictions  Restrictions  T = 447.66  T = 100  T = 100  T = 100  P = 19.03  Q = -18.89  T = 447.66  T = 100  T = 100  P = 19.03  Restrictions  T = 489.82  T = 489.
Property Symbol Units Temperature T °F Pressure P psig Duty Q MMBtu/hr Work Ws hp Vapor fraction x Unitless  T=446 P=242.3 x = 0  Group 13 Sehar Allana Huong Phan Benjamin Perez Gage Attard	T = 446 P = 247.4 x = 0		Q = 12.81 Q = -13.46

 95.00
 446.00
 446.00
 414.00
 233.00
 248.91
 401.00
 401.00
 401.00
 362.14

 249.30
 242.30
 247.40
 277.10
 275.60
 360.30
 355.30
 355.30
 138.30
 135.30

1200888

H-4 Inlet (R2 R2 Feed @ T & R2 Outlet V-2 Outlet Evap 1 Inlet

1200890

Evap 1 Condensed

358.60 358.60 358.60 133.30 132.30 132.30

Evap 1 total

4769 4666

V-3 Inlet H-8 Inlet Evap 2 feed

185549

4666 4666

 358.60
 484.86
 484.86
 484.86
 467.62
 344.91

 132.30
 138.30
 136.30
 112.30
 110.30
 108.30

overhead

185549 20059

Evap 2 OH

344.91 344.91 106.30 106.30

Evap 1 Reflux distillate to

mixer

Evap 2 Condensed Evap 2 Reflux distillate to H-11 Inlet

9683

mixer

Evap 2 total V-4 Inlet H-12 Inlet

4619

bottoms

4709

 344.91
 358.47
 547.33

 106.30
 132.04
 113.30

1024840

MEG Column | MEG column | Condensed | MEG column | MEG distillate |

reflux to H-14

 448.71
 447.66
 447.66
 447.66
 447.66
 100.00
 489.82
 489.82

 23.03
 21.03
 19.03
 19.03
 19.03
 100
 26.03
 24.03

168747

168747

overhead MEG OH

resh water to Amine solution Stripping

427980

Methane fresh Recycle to R1 wastewater feed

CO2 Scrubber CO2 Scrubber outlet to CO2 P-2 Inlet EO scrubber to CO2 steam to EO

1179521

 508.27
 508.27
 140.00
 95.00

 360.90
 360.00
 359.10
 140.00

0 0 0 0 0 427980 0

1428902

1385290

MEG column H-16 inlet V-6 Inlet

6426

4664 4535 4535 4535

overhead (EO | Inerts vented | KO Drum Inlet | C-1 Inlet

14629

1448285

1428902

239.69 248.00

6426

V-5 Inlet MEG product total bottoms

R1 Outlet after heatx | EO scrubber outlet | EO scrubber outlet after 1st heatx | EO scrubber outlet | EO scrubber outlet after 1st heatx | EO desorber outlet (EO rich) | P-1 Inlet |

1181905

Ethylene Fresh O2 Fresh Feed (Ethylene, O2, after Throttling)

105150 97736 1590455

Pressure [psig]

Mass flow rate [lb/hr]

Total

and Recycle)

H-1 Outlet H-2 Outlet R1 Outlet

855824 855824 855824

1590462

1590462

1307091

 90.00
 454.92
 261.26
 396.00
 446.00
 446.00
 320.62
 239.69

 360.00
 360.00
 281.30
 278.30
 275.30
 255.30
 252.30
 249.30

950904 950904 950904 950904