方案一（初期）

COLUMN SUMMARY

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

SIDESTRIPPER SS2

1/ 38 254.8 0.17 59.6 66.3L 47.5V

2/ 39 251.6 0.18 56.7 40.8

3/ 40 249.2 0.18 54.8 37.9

4/ 41 246.3 0.19 52.9 36.0

5/ 42 241.3 0.19 34.1 28.9V 47.7L

TRAY NET VAPOR RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

1 82.086 5.18411 0.97881 3.901 1.065 0.752

2 69.211 4.45529 0.98379 2.821 0.914 0.633

3 61.810 4.06143 0.98583 2.343 0.850 0.577

4 55.630 3.73591 0.98708 2.003 0.807 0.536

5 48.084 3.31399 0.98811 1.639 0.764 0.495

TRAY NET LIQUID RATES AND DENSITIES

SIDESTRIPPER SS2

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

1 229.064 643.918 0.02199 13.641 16.879 21.185

2 232.153 649.456 0.02264 13.163 16.264 20.268

3 234.016 653.120 0.02321 12.823 15.830 19.633

4 235.629 656.780 0.02378 12.459 15.371 18.970

5 237.965 662.497 0.02446 11.340 13.979 17.117

TRAY TRANSPORT PROPERTIES

SIDESTRIPPER SS2

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

1 6.3846E-02 2.8561E-02 2.3077E-01 1.2101E-02 1.1293E+01

2 6.4555E-02 2.8521E-02 2.4114E-01 1.2805E-02 1.1742E+01

3 6.5045E-02 2.8618E-02 2.4844E-01 1.3267E-02 1.2044E+01

4 6.5561E-02 2.8735E-02 2.5610E-01 1.3674E-02 1.2353E+01

5 6.6394E-02 2.8861E-02 2.6900E-01 1.4183E-02 1.2845E+01

方案一（末期）

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

183.3L

SIDESTRIPPER SS2

1/ 38 250.7 0.17 58.2 65.0L 47.3V

2/ 39 247.5 0.18 55.4 40.6

3/ 40 244.9 0.18 53.5 37.8

4/ 41 242.0 0.19 51.7 35.9

5/ 42 237.0 0.19 34.0 28.9V 46.5L

TRAY NET VAPOR RATES AND DENSITIES

SIDESTRIPPER SS2

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

1 79.734 5.07118 0.97943 3.774 1.061 0.744

2 67.387 4.37128 0.98407 2.738 0.911 0.626

3 60.283 3.99318 0.98593 2.279 0.847 0.571

4 54.329 3.67927 0.98707 1.952 0.805 0.530

5 47.086 3.27308 0.98797 1.602 0.763 0.490

TRAY NET LIQUID RATES AND DENSITIES

SIDESTRIPPER SS2

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

1 224.267 648.556 0.02154 13.063 16.115 20.141

2 227.397 653.338 0.02222 12.604 15.542 19.292

3 229.282 656.598 0.02281 12.277 15.135 18.697

4 230.913 659.988 0.02339 11.927 14.700 18.072

5 233.301 665.407 0.02408 10.845 13.360 16.298

TRAY TRANSPORT PROPERTIES

SIDESTRIPPER SS2

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

1 6.4487E-02 2.8347E-02 2.3278E-01 1.2175E-02 1.1546E+01

2 6.5198E-02 2.8287E-02 2.4314E-01 1.2829E-02 1.1977E+01

3 6.5694E-02 2.8372E-02 2.5049E-01 1.3262E-02 1.2272E+01

4 6.6217E-02 2.8478E-02 2.5826E-01 1.3646E-02 1.2577E+01

5 6.7045E-02 2.8592E-02 2.7123E-01 1.4129E-02 1.3063E+01

方案二（初期）

COLUMN SUMMARY

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

1/ 36 253.1 0.17 60.5 67.3L 47.8V

2/ 37 249.9 0.18 57.6 41.0

3/ 38 247.4 0.18 55.7 38.1

4/ 39 244.5 0.19 53.7 36.2

5/ 40 239.5 0.19 34.2 28.9V 48.3L

TRAY NET VAPOR RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 82.183 5.20808 0.97851 3.927 1.071 0.754

2 69.453 4.48666 0.98352 2.849 0.919 0.635

3 62.060 4.09258 0.98558 2.366 0.854 0.578

4 55.844 3.76421 0.98687 2.020 0.811 0.537

5 48.240 3.33751 0.98794 1.650 0.767 0.494

TRAY NET LIQUID RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 226.205 644.236 0.02177 13.684 16.937 21.240

2 229.185 649.771 0.02241 13.201 16.316 20.316

3 230.997 653.467 0.02298 12.855 15.876 19.672

4 232.577 657.173 0.02354 12.485 15.409 18.998

5 234.892 662.938 0.02422 11.355 14.003 17.128

TRAY TRANSPORT PROPERTIES

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

SIDESTRIPPER SS2

1 6.4085E-02 2.8414E-02 2.3008E-01 1.2051E-02 1.1321E+01

2 6.4798E-02 2.8370E-02 2.4035E-01 1.2737E-02 1.1771E+01

3 6.5296E-02 2.8462E-02 2.4765E-01 1.3192E-02 1.2078E+01

4 6.5822E-02 2.8575E-02 2.5536E-01 1.3595E-02 1.2391E+01

5 6.6668E-02 2.8697E-02 2.6833E-01 1.4101E-02 1.2890E+01

方案二（末期）

SIDESTRIPPER SS2

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

1/ 36 251.8 0.17 58.8 65.3L 47.1V

2/ 37 248.6 0.18 56.1 40.7

3/ 38 246.1 0.18 54.2 37.9

4/ 39 243.2 0.19 52.3 36.0

5/ 40 238.1 0.19 34.1 28.9V 47.0L

TRAY NET VAPOR RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 80.832 5.13237 0.97902 3.810 1.056 0.742

2 68.464 4.43266 0.98376 2.786 0.912 0.628

3 61.265 4.04988 0.98571 2.323 0.850 0.574

4 55.186 3.72947 0.98693 1.989 0.808 0.533

5 47.750 3.31264 0.98792 1.629 0.765 0.492

TRAY NET LIQUID RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 224.894 645.669 0.02165 13.231 16.364 20.492

2 227.765 651.139 0.02228 12.768 15.769 19.609

3 229.507 654.814 0.02284 12.434 15.344 18.988

4 231.026 658.522 0.02340 12.074 14.891 18.335

5 233.266 664.277 0.02407 10.965 13.512 16.507

TRAY TRANSPORT PROPERTIES

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

SIDESTRIPPER SS2

1 6.4317E-02 2.8353E-02 2.3108E-01 1.2093E-02 1.1409E+01

2 6.5024E-02 2.8306E-02 2.4124E-01 1.2767E-02 1.1855E+01

3 6.5522E-02 2.8396E-02 2.4852E-01 1.3212E-02 1.2161E+01

4 6.6051E-02 2.8505E-02 2.5624E-01 1.3606E-02 1.2476E+01

5 6.6898E-02 2.8619E-02 2.6922E-01 1.4100E-02 1.2976E+01

方案三（初期）

SIDESTRIPPER SS2

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

1/ 36 251.7 0.17 65.6 72.6L 49.1V

2/ 37 248.5 0.18 62.5 42.1

3/ 38 245.9 0.18 60.3 39.0

4/ 39 242.9 0.19 58.2 36.8

5/ 40 237.7 0.19 34.7 28.9V 52.4L

TRAY NET VAPOR RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 84.128 5.35273 0.97725 4.133 1.101 0.772

2 71.526 4.63826 0.98251 3.009 0.943 0.649

3 64.006 4.23672 0.98479 2.494 0.873 0.589

4 57.555 3.89405 0.98627 2.120 0.826 0.544

5 49.548 3.44122 0.98755 1.717 0.777 0.499

TRAY NET LIQUID RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 221.678 644.697 0.02138 14.533 17.973 22.543

2 224.448 650.225 0.02199 14.018 17.312 21.559

3 226.170 653.996 0.02254 13.644 16.836 20.863

4 227.709 657.828 0.02310 13.242 16.328 20.129

5 230.032 663.829 0.02377 12.045 14.840 18.144

TRAY TRANSPORT PROPERTIES

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

SIDESTRIPPER SS2

1 6.4294E-02 2.8204E-02 2.2759E-01 1.1912E-02 1.1310E+01

2 6.5008E-02 2.8147E-02 2.3749E-01 1.2560E-02 1.1758E+01

3 6.5517E-02 2.8229E-02 2.4469E-01 1.3000E-02 1.2070E+01

4 6.6061E-02 2.8336E-02 2.5242E-01 1.3401E-02 1.2393E+01

5 6.6939E-02 2.8456E-02 2.6559E-01 1.3917E-02 1.2912E+01

方案三（末期）

SIDESTRIPPER SS2

---------- NET FLOW RATES ----------- HEATER

TRAY TEMP PRESSURE LIQUID VAPOR FEED PRODUCT DUTIES

DEG C MPAG KG-MOL/HR M\*WATT

------ ------- -------- -------- -------- --------- --------- ------------

1/ 36 251.9 0.17 61.4 68.1L 48.0V

2/ 37 248.7 0.18 58.4 41.2

3/ 38 246.2 0.18 56.5 38.3

4/ 39 243.2 0.19 54.5 36.3

5/ 40 238.1 0.19 34.3 28.9V 49.0L

TRAY NET VAPOR RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM NORMAL ACTUAL

KG/M3 DENSITY K\*KG/HR K\*M3/HR K\*M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 82.037 5.21113 0.97841 3.935 1.075 0.755

2 69.483 4.49974 0.98338 2.863 0.923 0.636

3 62.136 4.10806 0.98545 2.379 0.858 0.579

4 55.907 3.77852 0.98675 2.030 0.814 0.537

5 48.266 3.34853 0.98784 1.655 0.769 0.494

TRAY NET LIQUID RATES AND DENSITIES

--------------- RATES ---------------

TRAY MW ACTUAL DENS Z FROM DRY STD LIQ ACTUAL

KG/M3 DENSITY K\*KG/HR M3/HR M3/HR

---- -------- ------------ -------- ----------- ----------- -----------

SIDESTRIPPER SS2

1 223.731 646.897 0.02149 13.727 16.942 21.220

2 226.603 652.442 0.02212 13.243 16.321 20.298

3 228.363 656.175 0.02267 12.894 15.878 19.651

4 229.918 659.938 0.02323 12.520 15.407 18.971

5 232.233 665.779 0.02391 11.384 13.998 17.099

TRAY TRANSPORT PROPERTIES

TRAY - THERMAL CONDUCTIVITY - ------ VISCOSITY ------- -- SURFACE --

KCAL/HR-M-C CP TENSION

LIQUID VAPOR LIQUID VAPOR DYNE/CM

---- ----------- ----------- ----------- ----------- -------------

SIDESTRIPPER SS2

1 6.4322E-02 2.8331E-02 2.3038E-01 1.2033E-02 1.1424E+01

2 6.5034E-02 2.8273E-02 2.4056E-01 1.2703E-02 1.1875E+01

3 6.5536E-02 2.8359E-02 2.4787E-01 1.3149E-02 1.2185E+01

4 6.6069E-02 2.8468E-02 2.5566E-01 1.3548E-02 1.2505E+01

5 6.6922E-02 2.8586E-02 2.6877E-01 1.4053E-02 1.3012E+01