

## APPENDIX E

List of streams from the alkylation process model used for pinch analysis

Stream Name	Stream Flowrate	Stream Temperature	Film Coefficient	Heat Capacity
C306	4.8715	349.4271	0.0900	14.3380
C307	4.8715	328.4033	0.0900	14.3380
C308	3.1197	328.4033	0.0900	2.6010
C309	3.1197	322.9752	0.0900	2.6010
C312	1.7518	328.4033	0.0900	16.8000
C315	1.7518	307.3612	0.0900	2.6640
C315A	1.7518	307.3612	0.0900	16.8000
C316	1.7518	345.2250	0.0900	2.6640
C317	1.6973	359.0690	0.0900	2.7732
C318	1.6973	321.9541	0.0900	2.6580
C319	1.6973	300.0000	0.0900	2.5430
C323	0.8012	359.0690	0.0900	237.6100
C324	0.8012	360.0690	0.0900	237.6100
C325	0.8181	322.5997	0.0900	287.6480
C326	0.8181	321.7995	0.0900	287.4800
C401	2.3677	282.6006	0.0900	2.2780
C402	2.3677	283.9220	0.0900	2.2920
C403	2.3677	295.8124	0.0900	2.3330
C404	2.3677	305.2492	0.0900	2.3590
C405	0.9348	410.0000	0.0900	2.6810
c406	0.9348	389.0844	0.0900	2.5280
c407	0.9348	303.5753	0.0900	2.3740
C408	3.2323	405.0000	0.0900	5.3590
C409	3.2323	460.9878	0.0900	5.3590
C410	0.8605	363.3260	0.0600	8.1860
C411	0.8605	403.7525	0.0900	8.1860
C412	0.0420	363.3260	0.0900	7.1230
C413	0.0420	301.0000	0.0900	7.1230
C414	2.9946	337.0859	0.0900	12.6960
C415	2.9946	307.2720	0.0900	12.6960
C418	3.1385	307.1433	0.0900	2.5010
c419	3.1385	304.5245	0.0900	2.5010
HC01	0.8980	296.2800	0.0900	2.1580
HC02	0.8980	292.6006	0.0900	2.1580
HC03	3.2215	304.2455	0.0900	2.4690
HC04	3.2215	296.0857	0.0900	2.4470
HC05	3.2215	288.2197	0.0900	2.4250
HC29	1.2304	280.0000	0.0900	111.1350
HC30	1.2304	281.0000	0.0900	111.1305
SC401	0.4587	319.5992	0.0900	2.5630

SC402	0.4587	323.1728	0.0900	2.5630
SC403	0.3148	336.6127	0.0900	2.6096
SC404	0.3148	331.5542	0.0900	2.5550
SC405	0.3148	300.0000	0.0900	2.4997
SC406	1.4706	336.6127	0.0900	306.9100
SC407	1.4706	337.6127	0.0900	306.9100
SC408	1.4706	318.7565	0.0900	304.1800
SC409	1.4706	317.7565	0.0900	304.1800
SC412	0.1439	318.7565	0.0900	2.5178
SC413	0.1400	300.0000	0.0900	2.5178