Permit Number 4757

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emissio</u> lb/hr | n Rates * TPY** |
|------------------------|----------------------------------|-----------------------------|-------------------------|-----------------|
| P-3 Polyol Unit | | | | |
| F2303PV | P3 Alcohol Tank | VOC | <0.01 | <0.01 |
| F2309PV | P3 DEOA Tank | VOC | <0.01 | <0.01 |
| P2102APVA | P3 Intermediate Tank | VOC | 0.17 | 0.01 |
| F2102APVB | P3 Intermediate Tank | VOC | 0.17 | 0.01 |
| F2102BPVA | P3 Intermediate Tank | VOC | 0.17 | 0.01 |
| F2102BPVB | P3 Intermediate Tank | VOC | 0.17 | 0.01 |
| D2201MV | P3 Neutralizer | VOC | 0.527 | 0.237 |
| F2209MV | P3 Slurry Tank | VOC | 0.009 | 0.005 |
| F2206PV | P3 Filter Feed Tank | VOC | 0.29 | 0.14 |
| F2203PV | P3 Impurity Absorber Tank | VOC | 0.02 | 0.01 |
| F2204APV | P3 Flash Drum Feed Tank | VOC | 0.46 | 0.11 |
| F2204BPV | P3 Flash Drum Feed Tank | VOC | 0.46 | 0.11 |
| F2202V | P3 Off-Spec Product Storage Tank | VOC | <0.01 | <0.01 |
| F2205PV | P3 Stabilizer Tank | VOC | <0.01 | <0.01 |

| Emission | Source | Air Contaminant | <u>Emissic</u> | on Rates * |
|---------------|--|------------------------------|----------------------|----------------------|
| Point No. (1) | Name (2) | Name (3) | <u>lb/hr</u> | TPY** |
| F2305APV | P3 Rundown Tank | VOC | <0.01 | <0.01 |
| F2305BPV | P3 Rundown Tank | VOC | <0.01 | <0.01 |
| F2306APV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306BPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306CPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306DPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306EPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306FPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306GPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| F2306HPV | P3 Product Tank | VOC | <0.01 | <0.01 |
| P3LE | P3 Loading Emissions | VOC | <0.01 | <0.01 |
| P3PUFE | P3 Process Unit Fugitive Emission | ns (4) VOC | 0.04 | 0.26 |
| P3OSFE | P3 Oxide System Fugitive Emission 0.49 | ons (4) | VOC | 0.13 |
| D2101VSV | P3 Reactor Vacuum System | VOC | <0.01 | <0.01 |
| P3FL1 | P3 Flare | VOC NO _x CO | 0.87 0.15 1.33 | 0.51 0.13 1.11 |

| Emission | Source | Air Contaminant | <u>Emissio</u> | n Rates * |
|-----------------|---------------------------|-----------------|----------------|-----------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| P-4 Polyol Unit | | | | |
| F3303APV | P4 Alcohol Tank | VOC | <0.01 | <0.01 |
| F3303BPV | P4 Alcohol Tank | VOC | <0.01 | <0.01 |
| F3303CPV | P4 Alcohol Tank | VOC | <0.01 | <0.01 |
| P3102APV | P4 Intermediate Tank | VOC | 0.34 | 0.02 |
| F3102BPV | P4 Intermediate Tank | VOC | 0.34 | 0.02 |
| F3102CPV | P4 Intermediate Tank | VOC | 0.34 | 0.02 |
| D3201MV | P4 Neutralizer | VOC | 0.480 | 0.237 |
| F3209MV | P4 Slurry Tank | VOC | 0.016 | 0.008 |
| F3206PV | P4 Filter Feed Tank | VOC | 0.43 | 0.24 |
| F3203PV | P4 Impurity Absorber Tank | VOC | 0.02 | 0.01 |
| F3204APV | P4 Flash Drum Feed Tank | VOC | 0.15 | 0.12 |
| F3204BPV | P4 Flash Drum Feed Tank | VOC | 0.15 | 0.12 |
| F3205PV | P4 Stabilizer Tank | VOC | <0.01 | <0.01 |
| F3305APV | P4 Rundown Tank | VOC | <0.01 | <0.01 |
| F3305BPV | P4 Rundown Tank | VOC | <0.01 | <0.01 |
| F3305CPV | P4 Rundown Tank | VOC | <0.01 | <0.01 |
| F3306APV | P4 Product Tank | VOC | <0.01 | <0.01 |

| Emission | Source | Air Contaminant | <u>Emissi</u> | on Rates * |
|-----------------|--|------------------------------|----------------------|----------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| | | | | |
| F3306BPV | P4 Product Tank | VOC | <0.01 | <0.01 |
| F3306CPV | P4 Product Tank | VOC | <0.01 | <0.01 |
| F3306DPV | P4 Product Tank | VOC | <0.01 | <0.01 |
| F3306EPV | P4 Product Tank | VOC | <0.01 | <0.01 |
| F3306FPV | P4 Product Tank | VOC | <0.01 | <0.01 |
| P4LE | P4 Loading Emissions | VOC | <0.01 | <0.01 |
| P4PUFE | P4 Process Unit Fugitive Emission | ns (4) VOC | 0.04 | 0.27 |
| P4OSFE 0.49 | P4 Oxide System Fugitive Emissions (4) | | VOC | 0.13 |
| D3101VSV | P4 Reactor Vacuum System | VOC | <0.01 | <0.01 |
| P4FL1 | P4 Flare | VOC NO _x CO | 0.87 0.15 1.33 | 0.58 0.15 1.28 |
| P-5 Polyol Unit | | | | |
| F4303APV | P5 Alcohol Tank | VOC | <0.01 | <0.01 |
| F4303BPV | P5 Alcohol Tank | VOC | <0.01 | <0.01 |
| F4303CPV | P5 Alcohol Tank | VOC | <0.01 | <0.01 |
| P4102APV | P5 Intermediate Tank | VOC | 0.34 | 0.02 |
| F4102BPV | P5 Intermediate Tank | VOC | 0.34 | 0.02 |

| Emission | Source | Air Contaminant | <u>Emissio</u> | n Rates * |
|---------------|---------------------------|-----------------|----------------|-----------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| | | | | |
| F4102CPV | P5 Intermediate Tank | VOC | 0.34 | 0.02 |
| D4201MV | P5 Neutralizer | VOC | 0.480 | 0.237 |
| F4209MV | P5 Slurry Tank | VOC | 0.016 | 0.008 |
| F4206PV | P5 Filter Feed Tank | VOC | 0.43 | 0.24 |
| F4203PV | P5 Impurity Absorber Tank | VOC | 0.02 | 0.01 |
| F4204APV | P5 Flash Drum Feed Tank | VOC | 0.15 | 0.12 |
| F4204BPV | P5 Flash Drum Feed Tank | VOC | 0.15 | 0.12 |
| F4205PV | P5 Stabilizer Tank | VOC | <0.01 | <0.01 |
| F4305APV | P5 Rundown Tank | VOC | <0.01 | <0.01 |
| F4305BPV | P5 Rundown Tank | VOC | <0.01 | <0.01 |
| F4305CPV | P5 Rundown Tank | VOC | <0.01 | <0.01 |
| F4306APV | P5 Product Tank | VOC | <0.01 | <0.01 |
| F4306BPV | P5 Product Tank | VOC | <0.01 | <0.01 |
| F4306CPV | P5 Product Tank | VOC | <0.01 | <0.01 |
| F4306DPV | P5 Product Tank | VOC | <0.01 | <0.01 |
| F4306EPV | P5 Product Tank | VOC | <0.01 | <0.01 |
| F4306FPV | P5 Product Tank | VOC | <0.01 | <0.01 |
| P5LE | P5 Loading Emissions | VOC | <0.01 | <0.01 |

| Emission | Source | Air Contaminant | <u>Emissi</u> | on Rates * |
|------------------|---------------------------------------|------------------------------|----------------------|----------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| P5PUFE | P5 Process Unit Fugitive Emission | ns (4) VOC | 0.04 | 0.27 |
| P5OSFE | P5 Oxide System Fugitive Emissio 0.49 | ons (4) | VOC | 0.13 |
| D4101VSV | P5 Reactor Vacuum System | VOC | <0.01 | <0.01 |
| P5FL1 | P5 Flare | VOC NO _x CO | 0.87 0.15 1.33 | 0.58 0.15 1.28 |
| P-6 Process Unit | | | | |
| F5303APV | P6 Storage Tank Vent | VOC | 0.07 | 0.01 |
| F5303BPV | P6 Storage Tank Vent | VOC | 0.07 | 0.01 |
| F5215PV | P6 Storage Tank | VOC | 0.03 | 0.01 |
| F5214PV | P6 Storage Tank | VOC | 0.03 | 0.01 |
| F5102APVA | P6 Intermediate Tank Vent | VOC | 0.18 | 0.01 |
| F5102APVB | P6 Intermediate Tank Vent | VOC | 0.18 | 0.01 |
| F5102BPVA | P6 Intermediate Tank Vent | VOC | 0.18 | 0.01 |
| F5102BPVB | P6 Intermediate Tank Vent | VOC | 0.18 | 0.01 |
| F5203APV | P6 Impurity Absorber Tank Vent | VOC | 0.03 | 0.02 |
| F5203AMV | P6 Impurity Absorber Tank Vent | VOC | 0.02 | 0.02 |
| F5203BPV | P6 Impurity Absorber Tank Vent | VOC | 0.05 | 0.02 |

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|-----------------------------------|-----------------|------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| F5204APV | P6 Flash Drum Feed Tank Vent | VOC | 0.19 | 0.14 |
| F5204BPV | P6 Flash Drum Feed Tank Vent | VOC | 0.19 | 0.14 |
| F5205PV | P6 Stabilizer Tank Vent | VOC | 0.01 | 0.01 |
| F5205MV | P6 Stabilizer Tank Vent | VOC | 0.01 | 0.01 |
| F5206PV | P6 Filter Feed Tank Vent | VOC | 1.06 | 0.53 |
| F5209PV | P6 Slurry Tank Vent | VOC | 0.02 | 0.01 |
| F5209MV | P6 Slurry Tank Vent | VOC | 0.02 | 0.01 |
| F5305APV | P6 Product Rundown Tank | VOC | 0.01 | 0.01 |
| F5305BPV | P6 Product Rundown Tank | VOC | 0.01 | 0.01 |
| F5305CPV | P6 Product Rundown Tank | VOC | 0.01 | 0.01 |
| F5306APV | P6 Product Storage Tank Vent | VOC | 0.01 | 0.01 |
| F5306BPV | P6 Product Storage Tank Vent | VOC | 0.01 | 0.01 |
| F5306CPV | P6 Product Storage Tank Vent | VOC | 0.01 | 0.01 |
| F5306DPV | P6 Product Storage Tank Vent | VOC | 0.01 | 0.01 |
| F5306EPV | P6 Product Storage Tank Vent | VOC | 0.01 | 0.01 |
| P6LE | P6 Loading Emissions | VOC | 0.01 | 0.01 |
| P6OSFE | P6 Oxide System Fugitive Emissio | ns VOC | 0.01 | 0.03 |
| P6PUFE | P6 Process Unit Fugitive Emission | s VOC | 0.06 | 0.41 |

| Emission | Source | Air Contaminant | <u>Emissi</u> | on Rates * |
|-------------------|--|-----------------------|---------------|--------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| | | | | |
| P6FL1 | P6 Flare | VOC | 1.31 | 0.87 |
| | | NO _x CO | 0.07 0.55 | 0.28 2.39 |
| | | | 0.00 | 2.00 |
| Blending Facility | | | | |
| F1306QPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1306RPV | Chemical Blending Oil Storage Tar | nk VOC | 0.13 | 0.02 |
| F1306SPV | Chemical Blending MDI Storage Ta | ank VOC | <0.01 | <0.01 |
| F1306TPV | Chemical Blending MDI Storage Ta | ank VOC | <0.01 | <0.01 |
| F1306UV | Chemical Blending MPDA Storage <0.01 | Tank | VOC | <0.01 |
| TK1BMV | Packaging B-Side Blend Tank | VOC | 0.11 | 0.01 |
| TK2BMV | Packaging B-Side Blend Tank | VOC | 0.42 | 0.12 |
| TK3BMV | Chemical Systems Blend Tank | VOC | 0.13 | 0.02 |
| TK4AMV | Packaging A-Side Blend Tank | VOC | <0.01 | <0.01 |
| TK8BMV | Flexible System B-Side Blend Tanl | < VOC | 0.01 | <0.01 |
| TK8BCV | Flexible System B-Side Blend Tanl | < VOC | 0.08 | 0.01 |
| TK9BMV | Rigid System B-Side Blend Tank | VOC | 0.01 | <0.01 |
| TK9BCV | Rigid System B-Side Blend Tank | VOC | 0.19 | <0.05 |

| Emission | Source | Air Contaminant | <u>Emissic</u> | n Rates * |
|---------------|---|-----------------|----------------|-----------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| TK5AMV | Chemical Blending TDI Storage Ta | ank VOC | 0.02 | <0.01 |
| F1308APV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308BPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308CPV | Tirefill A-Side Storage | VOC | 0.11 | 0.01 |
| F1308DPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308EPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308FPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308GPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308HPV | Tirefill B-Side Storage Tank | VOC | 0.06 | 0.01 |
| F1308JPV | Tirefill A-Side Storage Tank | VOC | 0.11 | 0.01 |
| F1308KPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308LPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308MPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |

${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES}$

| Emission | Source | Air Contaminant | | on Rates * |
|---------------|---|-----------------|-------|------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| F1308NPV | Chemical Blending Polyol Storage <0.01 | Tank | voc | <0.01 |
| F1308PPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308QPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308RPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308SPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308TPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308UV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308VPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308WPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| F1308XPV | Chemical Blending Polyol Storage <0.01 | Tank | VOC | <0.01 |
| TK6APV | Tirefill A-Side Blend Tank | VOC | 0.13 | 0.01 |
| TK7BMV | Tirefill B-Side Blend Tank | VOC | 0.12 | 0.01 |
| CBLE | Chemical Blending Loading Emiss | ions VOC | 3.71 | 0.32 |

AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | Emission | n Rates * |
|---------------------------------------|--|--------------------------|------------|--------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| CBFE | Chemical Blending Fugitive Emission | ons VOC | 0.08 | 0.35 |
| (1) Emission point from a plot plan. | identification - either specific equip | oment designation or e | missions p | ooint number |
| ` ' ' ' | ource names. For fugitive sources u | • | | |
| (3) VOC | - | volatile organic c | ompounds | as defined |
| | xas Administrative Code § 101.1. | | | |
| NO_x | - | nitrogen oxide | | |
| CO | - | carbon monoxide | | |
| (4) Fugitive emissio emission rate | ns are an estimate only and should e. | d not be considered as | a maximu | m allowable |
| * Emission rates a schedule: | are based on and the facilities are | limited by the following | ng maximu | m operating |
| Hrs/dayDay | vs/weekWeeks/year or H | Irs/year <u>8,760</u> | | |
| ** Compliance with | annual emission limits is based on | a rolling 12-month perio | d. | |

Dated October 5, 2004