



Schedule of Origin Volatility Requirements

AMS GRADE

| | | Jan. 1-15 | Jan. 16-31 | Feb. 1-15 | Feb. 16-29 | Mar. 1-15 | Mar. 16-31 | Apr. 1-15 | Apr. 16-30 | May 1-31 | June 1-30 | July 1-31 | Aug. 1-31 | Sept. 1-15 | Sept. 16-30 | Oct. 1-31 | Nov. 1-30 | Dec. 1-31 |
|-----------------|---------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|------------------------|----------------------|----------------------|----------------------|
| Colorado | (DVPE) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | | | A-3 | A-3 | A-2 | A-2 | A-2 | A-2 | | | | |
| Kansas | (DVPE) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | | | A-3 | A-3 | A-2 | A-2 | A-2 | A-2 | | | | |
| Oklahoma | (DVPE) | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | | | A-3 | A-3 | A-2 | A-2 | A-2 | A-2 | | | | |
| Texas | (DVPE) | N/A | N/A | N/A | N/A | N/A | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | | | | |
| El Paso | (DVPE) | N/A | N/A | N/A | N/A | N/A | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | 5.70 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | AA-1 | | | | |
| Wyoming | (DVPE) | N/A | N/A | N/A | N/A | N/A | N/A | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | 7.80 | N/A | N/A | N/A | N/A |
| | (Class) | | | | | | | A-3 | A-3 | A-3 | A-2 | A-2 | A-2 | A-2 | | | | |

NOTE: Gulf Coast origin changeover dates will precede this schedule by approximately 10 days, depending upon the applicable Explorer Pipeline cycle. Shipments via Explorer Pipeline must meet the specification applicable to the anticipated West Tulsa delivery date. Gulf Coast shippers will be advised of these dates through seasonal letters.

Revision Date: July 1, 2017