






# CO<sub>2</sub> Production System

## - Flue Gas Recovery

### Components Legend

- |                                     |   |
|-------------------------------------|---|
| 1. Direct Contact Cooler / Scrubber | 14. KMnO <sub>4</sub> Bubblers              |
| 2. Flue Gas Blower                  | 15. WittFill Tower                          |
| 3. Absorber Tower                   | 16. CO <sub>2</sub> Compressor              |
| 4. Stripper Tower                   | 17. Intercooler                             |
| 5. Rich Pump                        | 18. Aftercooler                             |
| 6. Lean / Rich Exchanger            | 19. High Pressure Precooler                 |
| 7. Reboiler                         | 20. Dual Tower CO <sub>2</sub> Dryer        |
| 8. Lean Pump                        | 21. CO <sub>2</sub> Condenser               |
| 9. Trim Cooler                      | 22. Liquid CO <sub>2</sub> Stripping Column |
| 10. Recirculation Pump              | 23. Reboiler                                |
| 11. Recirculation Cooler            | 24. Product Pump                            |
| 12. Absorber Vent Cooler            | 25. Liquid CO <sub>2</sub> Storage Tank     |
| 13. Product Cooler                  |   |

### Fluids Legend

- |   |   |
|---|---|
|  | Flue Gas                                    |
|  | Monoethanolamine (MEA) - Lean               |
|  | Monoethanolamine (MEA) - Rich               |
|  | Saturated Steam                             |
|  | Vapor CO <sub>2</sub>                       |
|  | Potassium Permanganate (KMnO <sub>4</sub> ) |
|  | WittFill                                    |
|  | Water-Soda Ash / Condensate                 |
|  | Cooling Water                               |
|  | Activated Carbon                            |
|  | Desiccant                                   |
|  | Liquid CO <sub>2</sub>                      |
|  | Cold Refrigerant                            |
|  | Hot Refrigerant                             |

