Notes:
1) See Figures 2-2 and 2-3 for detailed furnace diagrams.
2) Sources without GHG emissions are not included in this diagram.
**Furnace Flow Diagram – Normal Operation**

- **Decoke Air**: Closed
- **Hydrocarbon Feed**: Open
- **Dilution Steam**: Open
- **Convection Section**
- **Radiant Section**: Radiant Coils
- **Steam**
- **Water**
- **Exchanger**
- **Coke Hopper**
- **To Quench Tower/Recovery Section**
- **Fuel Gas**
- **Combustion Air**

**EPNs**
- XXAF01-ST
- XXBF01-ST
- XXCF01-ST
- XXDF01-ST
- XXEF01-ST
- XXFF01-ST
- XXGF01-ST
- XXHF01-ST

**Key**
- Red arrow: Closed Valve
- Green arrow: Open Valve

**Drawing**: Furnace Normal Operation.vsd

**Revision No.**: 1

**Date**: November 2012

**Project No.**: 55-2-24

**ExxonMobil Chemical Company**

**Ethylene Expansion Project**
Furnace Flow Diagram – Decoke Operation

EPNs
XXAB-DEC
XXCD-DEC
XXEF-DEC
XXGH-DEC

Decoke Air

Hydrocarbon Feed

Dilution Steam

Convection Section

Radiant Section

Radiant Coils

Steam

Water

Exchanger

Coke Hopper

To Quench Tower/Recovery Section

Fuel Gas

Combustion Air

Decoke Drum

Key
Closed Valve
Open Valve

Drawing: Furnace Decoke Operation.vsd

Figure 2-3

Revision No.: 1
Date: November 2012
Project No.: 55-2-24

Decoke Flow Diagram
ExxonMobil Chemical Company
Ethylene Expansion Project
NOTE: There is enough excess air from the gas turbine that no additional air is needed for the duct burner.