

Legend:	
	Redundant Ethernet
	3 <sup>rd</sup> Party Connection
	Ethernet Connection
	Hardwired
	Control Signal (See Note 2)

## **Abbreviations:**

AI Analog Input

AO Analog Output

BMS Burner Management System
DCS Distributed Control System

DI Digital Input
DO Digital Outpu

DO Digital Output
HMI Human Machine Interface

I/O Inputs/Outputs

OIT Operator Input Terminal

PLC Programmable Logic Controller

QTY Quantity

SIS Safety Instrumented System

TBD To Be Determined

VFD Variable Frequency Drive

TE Temperature Element

## Notes:

- 1. All instrumentation is based on preliminary P&ID's and process knowlage. This is not meant to be inclusive of all instrumentation required.
- 2. Assumed communications to be redundant Ethernet for backbone; 3<sup>rd</sup> party Ethernet; hardware signals for SIS (TBD); and the control signals which may be HART, Modbus, Foundation FieldBus, DeviceNet, etc. All are preliminary and TBD.
- 3. Assumed 3<sup>rd</sup> Party PLCs, but some may have only local control panels not connected to DCS.
- 4. Vendor Packages may be supplied as pre-manufactured skids (e.g., Flare Vendor Package may include analyzers, flow instrumentation and pressure regulators).
- 5. Only two sets of redundant Ethernet switches are show for simplicity; other redundant switches to be provided as necessary.
- 6. System consists of one or more controllers as required.
- 7. HMIs/OITs locations (e.g., field mounting) are TBD.

ENG RECORD		D	Control System						
DRAWN			Architecture Diagram						
CHECKED									
APPROVED			Project: PRELIMINARY						
			Scale: None		Sheet	2	of	2	