

## REFRIGERATION PLANTS

Client: \_\_\_\_\_ Date: \_\_\_\_\_

Project: \_\_\_\_\_ Contact: \_\_\_\_\_

Location: \_\_\_\_\_ PSL Reference: \_\_\_\_\_

### 1. PROCESS DATA

1. \_\_\_\_\_

1.1 Gas Flowrate

1.1 \_\_\_\_\_

Source: \_\_\_\_\_

\_\_\_\_\_

Maximum – MMSCFD \_\_\_\_\_

\_\_\_\_\_

Minimum – MMSCFD \_\_\_\_\_

\_\_\_\_\_

1.2 Inlet Free Liquids

1.2 \_\_\_\_\_

Source: \_\_\_\_\_

\_\_\_\_\_

HC - Bbl/MMSCF \_\_\_\_\_

\_\_\_\_\_

H<sub>2</sub>O - Bbl/MMSCF \_\_\_\_\_

\_\_\_\_\_

1.3 Inlet Pressure

1.3 \_\_\_\_\_

Maximum - psig \_\_\_\_\_

\_\_\_\_\_

Minimum - psig \_\_\_\_\_

\_\_\_\_\_

1.4 Inlet Temperature

1.4 \_\_\_\_\_

Maximum - °F \_\_\_\_\_

\_\_\_\_\_

Minimum - °F \_\_\_\_\_

\_\_\_\_\_

1.5 Gas Composition

1.5 \_\_\_\_\_

<u>Component</u>	<u>Mole %</u> _____	_____
He	_____	_____
N <sub>2</sub>	_____	_____
CO <sub>2</sub>	_____	_____
H <sub>2</sub> S	_____	_____
C <sub>1</sub>	_____	_____
C <sub>2</sub>	_____	_____
C <sub>3</sub>	_____	_____
iC <sub>4</sub>	_____	_____
nC <sub>4</sub>	_____	_____
iC <sub>5</sub>	_____	_____
nC <sub>5</sub>	_____	_____
C <sub>6</sub>	_____	_____
C <sub>7</sub>	_____	_____
C <sub>8+</sub>	_____	_____
Total	_____	_____

1.6 Liquid Composition

1.6 \_\_\_\_\_

<u>Component</u>	<u>Mole %</u> _____	_____
He	_____	_____
N <sub>2</sub>	_____	_____
CO <sub>2</sub>	_____	_____
H <sub>2</sub> S	_____	_____
C <sub>1</sub>	_____	_____
C <sub>2</sub>	_____	_____
C <sub>3</sub>	_____	_____
iC <sub>4</sub>	_____	_____
nC <sub>4</sub>	_____	_____
iC <sub>5</sub>	_____	_____
nC <sub>5</sub>	_____	_____
C <sub>6</sub>	_____	_____
C <sub>7</sub>	_____	_____
C <sub>8+</sub>	_____	_____
Total	_____	_____

1.7 Compression Upstream 1.7 \_\_\_\_\_

Yes/No \_\_\_\_\_

1.8 Outlet Pressure 1.8 \_\_\_\_\_

Pipeline: psig \_\_\_\_\_

1.9 Ambient Temperature 1.9 \_\_\_\_\_

Maximum - °F \_\_\_\_\_

Minimum - °F \_\_\_\_\_

1.10 Plant Purpose 1.10 \_\_\_\_\_

a) Maximize Liquids \_\_\_\_\_

b) H.C. Dewpoint Control \_\_\_\_\_

2. PRODUCT DATA 2. \_\_\_\_\_

2.1 Sales Gas 2.1 \_\_\_\_\_

H.C. Dewpoint Required \_\_\_\_\_

°F \_\_\_\_\_

at - psig \_\_\_\_\_

Water Content: \_\_\_\_\_

pounds/MMSCF \_\_\_\_\_

Heating Value

BTU/SCF \_\_\_\_\_

Net \_\_\_\_\_

Wet \_\_\_\_\_

Gross \_\_\_\_\_

Dry \_\_\_\_\_

2.2 Liquid Product Required 2.2 \_\_\_\_\_

Stabilized Condensate \_\_\_\_\_  
 (C<sub>5</sub>+) \_\_\_\_\_  
 RVP Required \_\_\_\_\_  
 LPG Mix (C<sub>3</sub>+) \_\_\_\_\_  
 Fractionation \_\_\_\_\_  
 (Attach Specifications) \_\_\_\_\_

2.3 Residue Gas (Off Tower) 2.3 \_\_\_\_\_

Recycle To: \_\_\_\_\_  
 a) Inlet \_\_\_\_\_  
 b) Sales \_\_\_\_\_  
  
 Send To: \_\_\_\_\_  
 a) Flare \_\_\_\_\_  
 b) Vent \_\_\_\_\_

3. MECHANICAL DATA 3. \_\_\_\_\_

3.1 Plant Design Pressure 3.1 \_\_\_\_\_

psig \_\_\_\_\_

3.2 Corrosion Allowance 3.2 \_\_\_\_\_

inches \_\_\_\_\_

3.3 Power Available

3.3 \_\_\_\_\_

Yes/No \_\_\_\_\_

\_\_\_\_\_

Voltage Maximum \_\_\_\_\_

\_\_\_\_\_

Phases \_\_\_\_\_

\_\_\_\_\_

Cycles: Hertz \_\_\_\_\_

\_\_\_\_\_

3.4 Controls

3.4 \_\_\_\_\_

Pneumatic \_\_\_\_\_

\_\_\_\_\_

Electric \_\_\_\_\_

\_\_\_\_\_

Panel - Local/Remote \_\_\_\_\_

\_\_\_\_\_

3.5 Alarms

3.5 \_\_\_\_\_

Transmission (Remote) \_\_\_\_\_

\_\_\_\_\_

Gas Detection \_\_\_\_\_

\_\_\_\_\_

Local Alarm \_\_\_\_\_

\_\_\_\_\_

Fire Detection \_\_\_\_\_

\_\_\_\_\_

3.6 Metering

3.6 \_\_\_\_\_

Sales Gas \_\_\_\_\_

\_\_\_\_\_

Recycle Gas \_\_\_\_\_

\_\_\_\_\_

Inlet Gas \_\_\_\_\_

\_\_\_\_\_

Liquid Product \_\_\_\_\_

\_\_\_\_\_

Flare Volume \_\_\_\_\_

\_\_\_\_\_

3.7 Heating System (Process) 3.7 \_\_\_\_\_

Direct Fired Reboilers	_____	_____
Heating Fluid		
Indirect System	_____	_____
Mounted On Skid	_____	_____
Mounted Off Skid	_____	_____
Other	_____	_____

3.8 Building Required 3.8 \_\_\_\_\_

Yes/No	_____	_____
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3.9 Storage 3.9 \_\_\_\_\_

C <sub>5</sub> + Atmos. - Tank		_____
- # Days/Bbl's	_____	_____
C <sub>3</sub> + LGP Bullet		_____
- # Days/Bbl's	_____	_____