

**ESTIMATING PREREQUISITES FORM**

(Standard 4 weeks, pre-approval required for shorter turn around schedules)

**Quote Number:**

**Due Date:**

**Project Name:**

**Project Location:**

Title	Company	Name	Telephone Number
Sales (1)	TTC		
Sales (2)	TTC		
Site Rep			
Engineers Rep			
Constructors Rep			

Project Influencers	Discipline	Company	Key Decision Maker Y/N	TTC Sales Contact
<b>Contract Administrator</b>				
Contact Name 1				Telephone:
Contact Name 2				Telephone:
<b>Engineering Influence</b>				
Contact Name 1				Telephone:
Contact Name 2				Telephone:
<b>General Contractor</b>				
Contact Name 1				Telephone:
Contact Name 2				Telephone:
<b>Specialty Subcontractor (s)</b>				
Contact Name 1				Telephone:
Contact Name 2				Telephone:
Contact Name 3				Telephone:
Contact Name 4				Telephone:
Contact Name 5				Telephone:
Contact Name 6				Telephone:

Documents Needed for lump sum proposal			
<b><u>Drawings and Lists</u></b>		<b><u>Specifications</u></b>	<b><u>General</u></b>
Instrument List	Piping Plans	Electrical Specs.	Project Scope
Line List	Plot Plans	General Specs.	Commercial Terms and Conditions
Equipment List	P&ID	Support Specs.	Safety Requirements
Isometrics	Tank Dimensions		Union Contract (if applicable)
	Equipment Drawings		

(Line list with lengths, ISO's, or complete plan drawings are **REQUIRED**)



## DESIGN PARAMETERS

### Environmental Conditions

Ambient temperatures	Indoors	Outdoors
Minimum Temperature °F:		
Maximum Temperature °F:		

### Area Classification

Nonhazardous					
Hazardous	Class		Division		Group
Hazardous	Class		Division		Group

(See area classification dwg. or line list for area classification of each line)

Hazardous Class.	T-Rating	or AIT	°F

***T rating or AIT must be specified***

### Process Parameters

Min. Operating Temperature °F:		Max Operating temperature °F:	
Max. Exposure Temperature °F:		Steam out	<b>Y/N</b>

(See line list if the above parameters are different for various lines.)

### Heat Tracing Parameters

Process Maintain Temperature °F:		(See line list if not shown here)
Freeze Protection Temperature °F:		
Insulation Type:		

### Insulation Thickness for Lines and Tanks:

Pipe Sizes (0 - )		(If not shown here, see line list)
Pipe Sizes ( - )		
Tanks		
Pipe Support Type:		Pipe Support Span in ft.

Heater Cable Operating Voltage:	
Heater Cable Type Specified	
Tanks:	Material
	Dimensions
Instruments:	Enclosures
	Thermostats
Tube Bundle Rqd	

(120V, 120/208V, 120V/240V or 277V)

See heat tracing specification

***Submit Tank Dimensions***

***Submit Instrument List***

***Submit Specifications***

### Control/Monitoring/Alarm

Type of Controls	Yes	No
Freeze Protection		
Process Maintain		
Thermostats		
RTD		
Enclosure		

NEMA 1, 12, 3R, 4, 4X, 7 or Z-purge

**Power Distribution Parameters**Customer Supply Voltage: **Tracer/Alliance to provide:**

Power Distribution	<input type="text"/>	Primary (mcc to eht tsfmr) and or Secondary(eht pnl to p/c)
Conduit or Cable Tray	<input type="text"/>	Type of Conduit (RGS,Alum, Robroy etc.)

**Engineering Deliverables****Heat Tracing**

	Yes/No		Yes/No
Engineering Calcs.	<input type="text"/>	EHT Isometric Details	<input type="text"/>
Electrical Heat Trace Schedule	<input type="text"/>	Controller Set Points (config.)	<input type="text"/>
Instrument HT Schedule	<input type="text"/>	EHT Components Tag Schedule	<input type="text"/>

**Electrical**

One line diagram	<input type="text"/>	EHT Equipment Layout	<input type="text"/>
Panelboard Schedule	<input type="text"/>	Control Panel Schematics	<input type="text"/>
Cable Schedule	<input type="text"/>	Control Panel Layout/BOM	<input type="text"/>
Installation Details	<input type="text"/>	Control Panel Interconnects	<input type="text"/>
Power Location Plan or Conduit/Tray Routing Plan	<input type="text"/>	Equipment Nameplate Schedule	<input type="text"/>

**Documents**

As-builts	<input type="text"/>
Operating Manual	<input type="text"/>
Panel Testing Reports	<input type="text"/>