

**TABLE 1-1 USER'S BASIC REQUIREMENTS SPECIFICATION (UBRS)
As Required by the Provisions of ASME RTP-1**

User firm name _____

User's agent firm name _____

Title of equipment _____

User's designation no. _____

UBRS prepared by (User or user's agent)
Name _____

Phone no. _____ Date _____

UBRS received by (Fabricator's representative):
Name _____

Phone no. _____ Date _____

UBRS issue and revision status (on all lines where revisions occur, designate in the left margin with a delta (Δ) and place the revision number in the delta:

Rev No.	Description	User's Rep	Date	Vendor's Rep	Date
Q-1	for Quotation				
Q-2					
Q-3					
Q-4					
Q-5					
P-1	for purchase				
P-2					
P-3					
P-4					
C-1	as built				
C-2					

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1.00) End User (name and address):

2.00) Installation location (name and address):

3.00) Specification prepared by (name and address)
 User user's Agent

4.00) Additional Fabricator responsibilities:

Material selection

Special testing requirements

Acoustic emission

Shipping and crating

FOB installation location

FOB fabrication shop

None

Installation

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5.00) Equipment description:

- Storage vessel
- Reaction vessel
- Absorber
 - Full liquid
 - Liquid Spray
 - Packed
- Other _____
- Separator
 - Two phase (liquid/liquid)
 - Two phase (liquid/gas)
 - Three phase liquid/gas/water)

6.00) Material selection by:

- End User
- Resin manufacturer
- Equipment manufacturer
- Other _____

6.10) Method of selection:

- Corrosion testing by
 - End User
 - Resin manufacturer
- Previous history by _____
- Resin manufacturer's corrosion guide
- Other _____

Resin _____ Glass _____ Cure _____

7.00) Chemical service data (date is not required in items 7.10, 7.20, 7.50, 7.60 should resin selection be made by User or User's agent: see para. 1-200)

7.10) Description of process function and process sequence:

7.20) Contents

	Chemical Name	Concentration		Exposure Time
		Max %	Min%	

- 7.30) Specific Gravity _____ max.
- 7.40) Temperature of contents _____ max.
- 7.50) pH range _____ max. _____ min.

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7.60) Discussion of process toxicology, environmental pollution, and associated hazards:

8.00) Applicable User's specifications/standards, codes, ordinances, etc. (list and specify; attach copies of local code/ ordinance requirements:

9.00) Mechanical and other forces:

- Violent chemical reaction
- Subsurface introduction of gas or vapor
- Transmitted mechanical load/force
- Impact due to introduction of solids
- Vacuum from pump down for vessel draining
- Vacuum from cool down
- Other _____

10.00) Equipment venting:

- Direct to atmosphere
- To a stack (include any pressure conditions in the design conditions)
- To a scrubber (include any pressure conditions in the design conditions)
- Other _____

11.00) Design conditions:

	Operating	Design
Internal pressure	_____	_____
External pressure	_____	_____
Temperature, °F	_____	_____
Specific gravity	_____	_____
Wind load _____ psf with _____ % shape factor		
Snow load _____ psf		
Man load _____ lb. on _____ area		
Seismic zone _____	<input type="checkbox"/> ANSI	<input type="checkbox"/> UBC <input type="checkbox"/> Other
	<input type="checkbox"/> Indoors	<input type="checkbox"/> Outdoors
Capacities:	Operating _____ gal	
	Flooded _____ gal	
Agitation:	Dead load _____ lb.	
	Bending moment _____ ft.-lb.	
	Horsepower _____ ft.-lb	
	Impeller speed _____ rpm	
	Impeller diameter _____ in.	
	Number of impellers _____	

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12.00) Sizing of equipment by:

Capacity only

Capacity and diameter

Dimensions only

13.00) Equipment configurations:

Diameter _____ Straight shell _____

13.11) Bottom

Flat Sloped _____ in./ft.

Cored _____

Other _____

Dished ASME flanged and dished

2:1 elliptical

Hemispherical

Other _____

Cone _____ deg.

Other _____

13.12) Support

Ring Carbon steel

Other _____

_____ legs RTP

_____ lugs Carbon steel

Other _____

RTP

Carbon steel

Other _____

13.13) Top

Flanged _____

Flat Cored _____

Ribbed _____

Other _____

Dished ASME Flanged and dished

2:1 elliptical

Hemispherical

Other _____

Cone _____ deg.

Lifting lugs RTP

Carbon steel

Other _____

13.20) Horizontal (above ground)

Dished heads

ASME flanged and dished

2:1 elliptical

Hemispherical

Other _____

Support

_____ saddles RTP

Carbon steel

Other _____

Other _____

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16.00) Equipment options:

16.10) Agitation

16.11) Sparger

Air

Steam

Other _____

Recirculation _____

Mechanical

Top entry

Center

Off Center

Radius _____

Angle _____

Steady bearing

Stabilizer ring

Other _____

Side entry _____

16.12) Agitator mounting

Top nozzle

Top bridge supported from vessel

Top bridge supported independent of vessel

Side entry supported from vessel

Side entry independently

Other _____

16.13) Shaft seal

Lip seal

Stuffing box

Mechanical seal

Other _____

16.14) Baffles

Number _____

Plate

Standoff _____, in.

Gusseted

Other _____

Wedge _____

16.20) Heating and cooling

Electric panels

Steam coil

Steam sparger

Heat exchanger

Other _____

16.30) Insulation

Material _____

Thickness _____

Insulation cover (describe) _____

Other _____