



SOLUTIONS RECOVERY INTERNATIONAL

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1. Project Name:

Date Submitted

Revision

Chemical Process Group

Scope of work

Specs (Y/N)

Existing Conditions _____

2. Process Water Data:

A. Quantity of Water Required

Average product flow rate & units: _____

Peak product flow rate & units: _____

Average product flow rate & units: _____

Other potential flow conditions from other stream: _____

Required days/week: _____

Maximum hours/day: _____

Expected hours/day: _____

Redundancy: Batch/Simplex 2nd train for regeneration or cleaning n+1 full spare _____ %

Minimum run length: _____ hr Max. Regenerate time: _____ hr Min. outlet pressure: _____

B. Feed Water Summary

(Please attach a complete water analysis for ion exchange and RO projections)

Water source: Surface Municipal Well Other: _____

Temp. min/max, °F: _____ Turbidity / suspended solids: _____ SDI range (yearly): _____

What pre-treatment technologies or chemicals are being used? _____

C. Product Quality Required

Industry Spec: Boiler feed water, operating pressure (psi): _____

Electronics, IC or device linewidth (µm): _____

ASTM spec. E - _____

Measurements: Conductivity (µS) < _____ Resistivity (MΩ) > _____ pH _____

Silica (ppm / ppb) < _____ Particles _____ Particles per _____ µm or larger

Hardness (ppm) _____ TOC (ppm / ppb) < _____

CO₂ or O₂ (ppm) < _____ Bacteria, CFU/ml < _____

Specific ions / other	Guarantee point	Units	Specific ions / other	Guarantee point	Units
<	_____	_____	<	_____	_____
<	_____	_____	<	_____	_____
<	_____	_____	<	_____	_____
<	_____	_____	<	_____	_____

2. Water & Wastewater Data:

A. Quantity of Water/Wastewater to be Treated

Average flow rate & units: _____ Peak flow rate & units: _____ Other potential flow conditions: _____

days/week: _____ hours/day: _____

Sizing or redundancy requirements: _____

Any products we should recover?: _____

Sink Chemistry attached. _____

B. Water & Wastewater Characteristics and Requirements

Additional analysis attached

Parameter	Influent mg/l	Req'd effluent	Parameter	Influent mg/l	Req'd effluent
Temp (F / C)	_____	_____	SDI	_____	_____
Turbidity	_____	_____	D.O.	_____	_____
PH	_____	_____	Cd	_____	_____
BOD	_____	_____	Cu	_____	_____
COD	_____	_____	Cr	_____	_____
TOC	_____	_____	Pb	_____	_____
Oil/Grease	_____	_____	Ni	_____	_____
TSS	_____	_____	Fe	_____	_____
Total P	_____	_____	TDS	_____	_____
TKN	_____	_____	GaAs	_____	_____
NH4-N	_____	_____	Alkalinity	_____	_____

Final Wastewater Disposition is: POTW (sewer) NPDES (direct) Recycle/Reuse

3. Solids/Sludge Handling Data (Must be completed for Solids Handling requests):

Type of Solids: Anaerobic Aerobic Primary Secondary Metals Precip.
 Dye/Pigment Water Treatment Waste Other: _____

Influent gal/day: _____ Influent wt % solids: _____ Influent dry _____
 (hr/day, days/wk): _____ Infl. % volatile _____ \$/DT disposal _____

Recommended dewatering method: _____ Req. concentration: _____

Final Disposal: Landfill Land Apply Incineration Composting _____

4. Site Limitations and Conditions:

Area classification (if known):
 Space Limitations? If so, list the Length available width available Height available
 Space available: _____ x _____ x _____

Access If so, describe: _____
 (Attach a sketch if possible)

Utility Limitations? List any typical services that are not available or may affect the equipment design _____

(Typical services are single and 3 phase power, pressurized feed water, instrument air, steam / hot water, cooling water, pressurized or bulk chemical supplies, compressed air / N₂, open drains and waste handling facilities, natural gas, etc.)

Climate Where is the jobsite (city, state/country)? _____ Indoor outdoor

List any special limitations (altitude, temperatures, lack of storage or insulation, salt air, etc.) _____

Other Limitations? If so, check or Site (is/will be) under construction Union site Non-union
 describe here: _____

5. General Comments: (Include motives, etc.)

6. Flow Schematic(s): (Indicate current and desired situation; attach sheets if necessary)

Summary of Acronyms:

SDI : Silt Density Index