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INDUSTRIAL WASTEWATER TREATMENT APPLICATION QUESTIONNAIRE

General Instructions: Please complete all applicable items possible on the form. Leave blank any items not known. Attach any additional data such as MSDS, analytical reports, permits, diagrams, specifications etc. Submit to Applied Mechanical Technology representative for a proposal. Feel free to contact Applied Mechanical Technology with any questions etc. When completed, please send to Steve.Wolf@Appliedmechtech.com or fax to number above.

Date: _____

Company Name: _____

Company Address: _____

Company Contact Name: _____

Contact Telephone: _____ Email: _____

Category of Wastewater Application (check all that apply):

- | | | |
|--|--|---------------------------------------|
| <input type="checkbox"/> Oily wastewater (page 3) | <input type="checkbox"/> Lake/River/Creek Water | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Metals wastewater (page 4) | <input type="checkbox"/> Municipal wastewater | <input type="checkbox"/> |
| <input type="checkbox"/> Food processing (page5) | <input type="checkbox"/> DI water | _____ |
| <input type="checkbox"/> Filtration of TSS (page 6) | <input type="checkbox"/> Groundwater remediation | _____ |
| <input type="checkbox"/> Tank/Railcar washout wastewater | <input type="checkbox"/> BOD/COD in water | _____ |
| <input type="checkbox"/> Recycle industrial wastewater | <input type="checkbox"/> pH Adjustment | _____ |
| <input type="checkbox"/> Recycle municipal wastewater | | _____ |
| <input type="checkbox"/> Drinking water | <input type="checkbox"/> | |

Installation Environment:

Installed location (circle answers): *Indoors – Outdoors – Both, please explain* _____

Freeze Protection required? _____ Preference (check what applies); electric heat trace, insulation, steam jacketing

Electric power provided? Voltage: _____ amperage; _____ phase; _____ Hz;

Air power provided: Is there plant air? _____ what pressure? _____ psi, what volume; _____ cfm

Is the plant air filtered and dried; _____ to what specification; _____

Potable water provided? What flow rate; _____ gpm, what pressure; _____ psi

Is Plant Steam available? _____ what psi; _____ what temperature; _____ F, what H.P; _____



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General Water Data:

Flow rate: gpm design; _____ gpm peak; _____ gpd total; _____

Wastewater generation period: _____ hours/day. Wastewater treatment period: _____ Hours/day.

Water temperature: degree F; _____ degree C; _____

Water pH: _____ Water TDS: _____ (if known)

Provide water analytical data (FOG/O&G, TSS, Metals, BOD/COD); _____

Please describe the treatment goals:

• Do you experience violations of discharge permit limits? Please describe: _____

• Treat for recycle? (if so please describe usage and desired water quality) _____

• Other: _____

• Do you have a discharge permit (Y/N); _____ Sanitary Sewer or NPDES: _____

What are applicable limits (or attach permit copy) _____

What if any treatment currently exists: _____

Are there any shortcomings or complaints of the existing treatment system? _____

See page 7 to provide a diagram of new and/or existing system.

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Oily Water - Please Complete The Following:

Please provide applicable MSDS.

Please describe the process that generates the water to be treated (please attach process diagram if one exists);

NOTE: TSS and Oil and Grease quantity data are essential to proper DAF sizing. If this is a DAF application please provide this data in the General Water Data section of this questionnaire.

Oil name; _____

Oil type; emulsified? _____, what %; _____ Free oil? _____, what %;

Note: API defines emulsified oil as oil particles < 20 um size (run thru a pump) or chemically emulsified (detergents etc).

Oil density; SG: _____ or gm/cc; _____ (Is it a light phase (LNAPL) or dense phase DNAPL?)

Oil Quantity in the water; _____ (ppm or %) Is the oil soluble in water? _____

Floating fraction if left in a jar for ~45 minutes? Please describe; _____

Bottom solids fraction if left in a jar for ~45 minutes? Please describe; _____

Odor if any? Please describe; _____ Color; _____

Opacity, please describe (Can you see light thru it? Can you read thru it?); _____

Biologic activity? Please describe; _____

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Metals in Water - Please Complete The Following:

Please provide any applicable MSDS.

Please describe the process that generates the water to be treated (please attach process diagram if one exists);

What metals are present and in what qty (provide analytical if possible); _____

Are metals in a complexed form? Please explain; _____

Are metals soluble or insoluble or both? Please explain; _____

Are reductions or oxidations required (ie; CR5 reduction to CR3, or Cyanide oxidation); _____

Is sludge dewatering required?: _____ What is TSS qty: _____

Is final effluent monitoring required?: _____

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Food Processing Wastewater - Please Complete The Following:

Please provide any applicable MSDS.

Please describe the process that generates the water to be treated (please attach process diagram if one exists);

What type of FOOD PROCESSING application is this – check all that apply:

- Cured Meats_____
 - Cooked meats_____
 - Poultry processing_____
 - Vegetable processing (raw)_____
 - Vegetable processing (cooked);_____
 - Other, please describe;_____
-

See page 7 to provide a diagram of new and/or existing system.



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Filtering of TSS Total Suspended Solids in Water/Wastewater - Please Complete The Following:

Please provide any applicable MSDS.

Please describe the process that generates the effluent water to be filtered (please attach process diagram if one exists);

What particle sizes exist in the water:

What type of FILTRATION application is this – check all that apply:

- Industrial metals clarifier effluent polishing_____
- Oily water separator effluent polishing_____
- Hard water filtration (contains any Calcium, Aluminum, Manganese)_____
- Potable drinking water filtration_____
- Fire water filtration_____
- Groundwater remediation_____
- Carbon adsorption of trace organics_____
- Manganese Greensand (Fe removal)_____
- Ion Exchange or Demineralization_____
- Groundwater remediation_____
- Other, please describe:_____

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Please provide a diagram below of the existing system and/or the new desired system

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