



ALLOY HARDFACING AND ENGINEERING CO., INC.
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NEW PLANT QUESTIONNAIRE:

Date _____

RAW MATERIAL COMPOSITION:

RM1. Volume per hour raw: _____ = _____ #/Day

- | | | | | |
|----|-------------|-------|----------|--------------------|
| A. | From kill - | % Fat | % Solids | % Moisture content |
| B. | From fab - | % Fat | % Solids | % Moisture content |
| C. | Blood - | % Fat | % Solids | % Moisture content |
| D. | DAF - | % Fat | % Solids | % Moisture content |

RM2. Hours per shift (___)

RM3. Number of shifts per day & time of shifts (___) _____

RM4. Design rendering for how many hours per day (____)

RM5. How many rendering operators do you currently have, per shift (____)

RM6. How many hours raw product storage

(____) *How much is required ??* _____

(____) *How much is requested ??* _____

M7. Do you want plant built with future expansion in mind?

If YES, what will future expansion volumes be _____

RM8. What preference do you have for raw material grinding:

Anco/Rietz Prebreaker/Svartek (_____)

RM 8a. Do you plan redundancy in Raw Material Grinding?

RM9. Raw material magnets –

Where / how many

RM10. How do you want to convey ground raw material to cooking?

- A. Raw material pumps (___)
- B. Variable speed surge bin (___)
- C. Screw conveyors (___)

COOKING:

CO1. It is our understanding that you want Continuous cooking, how many?

CO1a. Jacketed or unjacketed?

CO1b. Do you want one cooker Stainless Steel?

CO2. How do you wish to load cooker?

- Ramveyor
- Infeed Screw

CO3. Do you prefer any particular brand of transmission?

- Falk
- DUPPS
- Sumitomo
- Dodge
- Flender

CO4. Do you prefer any particular brand of coupling?

CO5. Cooker Rotor –
Standard / Super

CO6. Cooker Discharge Options:

- Control Wheel
- Control Screw

CO7. Would you prefer knife gate valves for inlet/outlet

CO9. Any Drainer preferences_____

CO10. Any fat pump preferences_____

CO11. What brand press do you want, size and quantity_____

CO12. Press Feed Control:

Variable Speed
Flapper Gate with Micro
Electric Eye

CO13. Can we utilize Vertical Lifts in our layout_____

FINISHED PRODUCT:

FP1. Will you grind and screen finished product_____

FP2. If YES, what is your preference for grinder?

FP3. Preference for Screeners:

FP4. Storage capacity requested - in either pounds or hours_____

FP5. Any preference on storage bin/silo:

FP6. How do you prefer to load trucks:
A. Screw Conveyors_____
B. Pneumatically_____
C. Gravity_____
D. Others_____

FP7. Will truck scales be incorporated in this layout, or do you want another type scale such as load cells, etc._____

FAT SYSTEM:

FS1. Do you have a preference for either size or brand of pump:
A. From Sedimenter(s)_____
B. From Press(s)_____

FS2. How do you want to clean fat: _____
Pre Screen with Sweco ?
Size
Brand Preference
If Centrifuge – Location
 ➤ Elevated
 ➤ Floor mounted
Alloy Fats and Fines Screener

FS3. How much clean fat storage is required - in hours or pounds _____
Coils?
Agitation?

FS4. Do you want clean storage tanks to be inside or outside the building _____

FS5. Do you have a preference as to type of clean fat pumps _____

FS6. How quickly do you want to load fat trucks from storage tank _____

DAF PROCESS:

DAF1. Please give us details regarding how you want to process DAF, including DAF transfer system, storage, cooking, etc. _____

HEAT RECOVERY:

HR1. What type condenser do you want - shell and tube or air condenser

Cooling Tower

HR2. If shell and tube, what is preference - vertical or horizontal

HR3. Can shell and tube be located outside or on the roof _____

HR4. What water temperature do you want to generate in the shell and tube _____

HR5. Do you have adequate hot water storage, and what is your hot water storage capacity. *NOTE ALLOY has (2) 42,000 Gallon Units in stock* _____

HR6. Do you want any special controls for the heat recovery system_____

Lagoon Capacity ?

AIR POLLUTION CONTROL:

AP1. Do you have a preferred vendor, and/or prefer a certain type air scrubber

AP2. Do you want to scrub high intensity odors, in addition to room air scrubbing_____

Point Source Capture?

Room Air Ducting?

AP3. How many room air exchanges are required per hour_____

WASTE WATER:

WW1. What are your plans for waste water facility_____

WW2. Primary Separation_____

WW3. Secondary System_____

BOILER:

BO1. For rendering - how many boilers do you have and what are their capacities

BO2. If additional boilers are required, do you have a preference as to brand name and type_____

BO3. Water Softening:

BO4. High Pressure Condensate Return:

ELECTRICAL AND CONTROL SYSTEM:

EL1. What level of control are you looking for _____

Basic Controls

Operator Feedback

Management Feedback

Data Acquisition

1. What areas do you want to run automatically _____

2. Do you want printed reports or graphs in any areas of the process _____

3. Do you have a preferred brand of PLC's _____

EL2. Do you have a preference as to location of control room or MCC center _____

EL3. Do you have sufficient transformers _____

EL4. Lighting:

Type

Amount

EL6. Do you want a quote from Alloy for equipment installation

BUILDING:

B1. New building or use a portion of existent building

EL9. Do you want a maintenance shop in new building _____

EL10. If new boiler required, do you want it in a separate building _____

EL12. Do you want locker room in new building _____

EL13. Do you want break room/vending area in new building _____

EL14. Do you have any building parameters, such as:

1. Size - dimensions _____

2. One or Two stories, type, etc. _____

GENERAL CONTRACTING:

EL4. Will you be the General Contractor: _____

1. Electrical
2. Plumbing
3. Civil Engineering
4. Building
5. Engineering Drawings

EL5. If not - who? _____

EL6. Are there investment parameters or budget in mind?

EL7. What is time frame required for the following:

1. Conceptual Drawings _____
 2. Budget Quote _____
 3. Detailed Drawings _____
 4. Placement of Order _____
 5. Installation _____
- Start Date Approx. _____