Α	NATURE OF THE LIQUID TO BE PUMPED	COMMENTS
A1	IS THE LIQUID FRESH OF SALT WATER, ACID OR	
	ALKALI, OIL, GASOLINE, SLURRY, OR PAPER STOCK?	
A2	IS IT COLD OR HOT, WHAT IS THE	
	NORMAL/MIN/MAX TEMPERATURES? WHAT IS THE VAPOR PRESSURE AT THE PUMPING	
	TEMPERATURE?	
А3	WHAT IS ITS SPECIFIC GRAVITY?	
A4	IS IT VISCOUS OF NONVISCOUS? NEWTONIAN OR NON-NEWTONIAN? WHAT IS THE VISCOISTY	
	VALUE?	
A5	IS IT CLEAR AND FREE FROM SUSPENDED	
	FOREIGN MATTER OR DIRTY AND GRITTY? IF THE	
	LATTER, WHAT ARE THE SIZE AND NATURE OF THE SOLIDS, AND ARE THEY ABRASIVE? IF THE LIQUID	
	IS OF A PULPY NATURE, WHAT IS THE	
	CONSISTENCY? WHAT IS THE SUSPENDED	
	MATERIAL?	
A6	WHAT ARE THE CHEMICAL ANALYSIS OF THE	
	LIQUID? PH VALUE? OTHERS? WHAT ARE THE	
	EXPECTED VARIATIONS OF THE ANALYSIS? IF	
	CORROSIVE, WHAT HAS BEEN THE PAST	
	EXPERIENCE, BOTH WITH SUCCESSFUL MATERIALS AND WITH UNSATISFACTORY	
	MATERIALS AND WITH UNSATISFACTORY	
	WATERWALE.	
В	CAPACITY	
D.4	WILLIAM TO THE RECLURED CARACITY AS MELL AS	
B1	WHAT IS THE REQUIRED CAPACITY AS WELL AS	
	THE MINIMUM AND MAXIMUM AMOUNT OF LIQUID THE PUMP WILL EVER BE CALLED UPON TO	
	DELIVER?	
B2	IS THERE A DISCHARGE BYPASS LINE?	
В3	WILL THIS PUMP RUN IN PARALLEL OR SERIES	
	WITH ANOTHER PUMP? WHAT ARE THE	
	CHARACTERTISTICS OF THESE PUMPS?	
С	SUCTION CONDITIONS	
C1	IS THERE A SUCTION LIFT? NUMBER OF FEET?	
C2	OR IS THERE SUCTION HEAD? FLOODED MIN/MAX	
	RANGE IN FEET?	
C3	WHAT ARE THE LENGTH AND DIAMETER OF THE	
C4	SUCTION PIPE?	
C4	WHAT IS THE SLOPE OF THE SUCTION PIPE?	
	MADA EAAN ALE DENHALDE MACDEACEDE CHA COL	
C5	WHAT VALVES, REDUCERS, INCREASERS, CHECK	
C5 C6	WHAT VALVES, REDUCERS, INCREASERS, CHECK VALVES, ETC ARE IN THE SUCTION LINE? WHAT IS THE NET POSITIVE SUCTION HEAD	

CTION LINE?	IS THERE A STRAINER ON 1	C7	
	IS THERE AN AGITATOR IN THE SUPPLY TANK?		
		C8	
	DISCHARGE CONDITIONS	D	
CONOTANT OR	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	D.4	
CONSTANTOR	WHAT IS THE STATIC HEAD VARIABLE?	D1	
	WHAT IS THE FRICTION HE	D2	
GE PRESSURE	WHAT IS THE MAXIMUM DIS	D3	
	AGAINST WHICH THE PUMF		
JRVE? IS IT	DO YOU HAVE A SYSTEM H	D4	
OLIDS AND	CORRECTED FOR VISCOSI		
	CONDITION OF PIPE?		
E HEAD?	WHAT IS THE MINIMUM DIS	D5	
	TOTAL HEAD	_	
	TOTAL HEAD	E	
DISCHARGE	VARIATIONS IN THE SUCTION	E1	
	CONDITIONS WILL CAUSE \	_ '	
	TOTAL HEAD.		
NAMIC HEAD.	THE PUMP HEAD IS THE TO	E2	
L HEAD	WHAT HAPPENS WHEN THE	E3	
R, COATING	INCREASES 5%,10% DUE TO		
	ETC.?		
	SERVICE CONDITIONS	F	
	SERVICE CONDITIONS	Γ	
ENT? PLEASE	IS IT CONTINUOUS OR INTE	F1	
	EXPLAIN.		
ED AGAINST A	WILL THE PUMP EVER BE C	F2	
	CLOSED DISCHARGE? PLEA		
DRAINED	WILL THE PUMP BE FLUSHE	F3	
	WHTEN NOT IN SERVICE?		
	WILL THE PUMP BE USED F	F4	
	CLOSED SYSTEM OR FOR T	F <i>E</i>	
JMP MAY RUN	IS THERE A CHANCE THAT DRY?	F5	
TION OF THE	WHAT WILL CONTROL THE	F6	
	PUMP?	. 0	
PBE REQUIRED	HOW MANY TIMES WILL TH	F7	
	TO TURN ON AND OFF?		
IT? TURBULENCE	IS THERE ENTRAINED AIR F	F8	
	IN THE SUCTION FEED TAN		
	INCTALLATION	0	
	INSTALLATION	G	
A HORIZONITAL	IS THE DIIMD TO BE INSTAL	G1	
	OR VERTICAL POSITION? IN	31	
111. 117 (1)	PIT?		
NT? TURBULENCE	HOW MANY TIMES WILL TH TO TURN ON AND OFF? IS THERE ENTRAINED AIR F		

00	IE A VEDTICAL OD CUDATOCIDLE MULATICATIC	
G2	IF A VERTICAL OR SUBMERSIBLE, WHAT IS THE	
	MINIMUM LIQUID LEVEL, SUBMERGENCE?	
G3	WHAT IS THE TYPE OF POWER IS AVAILABLE TO	
	DRIVE THE PUMP AND WHAT ARE THE	
	CHARACTERISTICS OF THIS POWER?	
G4	WHAT IS THE VOLTS, PHASE, CYCLE?	
G5	WHAT TYPE OF MOTOR ENCLOSURE?	
	TEFC, ODP, TEFC CHEM DUTY, EXPLOSION PROOF	
	(CLASS AND DIVISION), WPI, WPII, OTHER?	
G6	DESCRIBE THE GEOGRAPHICAL LOCATION?	
G7	INDOOR OR OUTDOOR INSTALLATION?	
G8	RANGE OF AMBIENT TEMPERATURES?	
G9	ELEVATION ABOVE SEAL LEVEL?	
G10	WHAT ARE THE TANK OR SUMP MEASUREMENTS?	
	MATERIALS?	
G11	WHAT IS THE TYPE OF MATERIAL IN PIPE LINES TO	
	BE CONNECTED TO PUMP?	
G12	WHAT IS THE PUMP CYCLE TIME?(WANT MINIMUM	
· -	OF FOUR MINUTES.) STARTS PER HOUR?	
G13	IS METAL CONTAMINATION UNDESIRABLE?	
G14	WHAT IS THE PUMP FOUNDATION DIMENSIONS.	
•	WEIGHT?(GENERALLY WANT FOUNDATION MASS	
	TO BE FOUR TIMES THAT OF THE	
	PUMP,MOTOR,BEDPLATE ASSEMBLY WEIGHT.)	
G15	IS PLANT SPACE AT PUMP LOCATION A CRITICAL	
010	FACTOR?	
	TAOTOR:	
Н	APPLICATION	
•	ATTEIOATION	
H1	DESCRIBE THE APPLICATION.	
H2	ARE THERE ANY SPECIAL REQUIREMENTS OR	
1 12	MARKED PREFERENCES WITH RESPECT TO THE	
	DESIGN, CONSTRUCTION, OR PERFORMANCE OF	
	THE PUMP?	
H3	PLEASE PROVIDE A SKETCH OF THE	
113	INSTALLATION.	
H4	IS THIS A NEW OR REPLACEMENT PUMP?	
H5	ARE YOU TOTALLY SATISFIED WITH YOUR	
110	CURRENT PUMP? YES, NO ? EXPLAIN	
H6	IF PUMP IS NEW, DESCRIBE HOW JOB IS DONE	
110	*	
117	CURRENTLY.	
H7	HOW IMPORTANT IS THIS PUMP TO THE	
	OPERATION OF YOUR PLANT?	
1	MATERIALO	
1	MATERIALS	

I 1	PREVIOUS EXPERIENCE. HAVE YOU PUMPED THIS	
' '	LIQUID PREVIOUSLY? IF SO, OF WHAT MATERIAL	
	OR MATERIALS WAS THE PUMP MADE OF?	
	OR MATERIALS WAS THE PUMP MADE OF?	
12	WHAT WAS THE SERVICE LIFE IN MONTHS?	
13	WHAT PARTS WERE AFFECTED?	
14	WAS THE TROUBLE PRIMARILY DUE TO	
1 4	CORROSION, EROSION, GALVANIC ACTION, STRAY	
	CURRENT?	
15	WAS THE ATTACK UNIFORM? IF LOCALIZED, WHAT	
	PARTS WERE INVOLVED?	
I 6	IF PITTED, DESCRIBE SIZE, SHAPE AND LOCATION.	
	A SKETCH OR PICTURE WILL BE HELPFUL IN AN	
	ANALYSIS OF THE PROBLEM.	
17	WHAT IS CONSIDERED THE INTENDED ECONOMIC	
	LIFE?(NOTE: THAT THE USE OF INEXPENSIVE	
	PUMP MATERIALS MAY BE THE MOST	
	ECONOMICAL, WHEN THE LIFE AND INITIAL COST	
	IS EVALUATED.)	
J	SEALLING	
J1	DO YOU WANT PACKING, MECHANICAL SEAL,	
	DYNAMIC SEAL, MAGNETIC DRIVE?	
J2	IS FLUSH WATER AVAILABLE? WHAT PRESSURE?	
V	BEDPLATE	
K	DEUFLATE	
K1	DO YOU PREFER CAST IRON, FAB STEEL, NON-	
	METALLIC, FOOT MOUNTED, OR FEATURE	
	BEDPLATE?	
K2	WILL NON-SHRINK GROUT OR EPOXY GROUT BE	
1 \4	USED?	

FILE:PUMPAPPL

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