☐ BOWL ASSEMBLY

- ☐ make: model: stages:
- ☐ COS1: GPM @ ft. TDH % eff. % BEP
- ☐ COS2: GPM @ ft. TDH % eff. % BEP
- ☐ COS3: GPM @ ft. TDH % eff. % BEP
- ☐ certifications: ☐ NSF 61 ☐ NSF 372 ☐ ISO 9000
- ☐ certified performance test: ☐ non-witnessed ☐ witnessed
- ☐ strainer: ☐ none ☐ 304 SS cone ☐ 304 SS basket
- ☐ NSF 61 epoxy coatings: ☐ none ☐ interior ☐ exterior

☐ COLUMN ASSEMBLY

- ☐ column length: feet column diameter: inches
- ☐ column type: ☐ AWWA standard wall ☐ wall thickness inches
- ☐ column construction: ☐ threaded & coupled ☐ flanged
- ☐ NSF 61 epoxy coatings: ☐ none ☐ interior ☐ exterior
- ☐ lineshaft construction: ☐ open lineshaft ☐ enclosed lineshaft
- ☐ lineshaft lubrication: ☐ water lube ☐ oil lube
- ☐ lineshaft material: ☐ carbon steel ☐ 416 SS ☐ 304/316 SS
- ☐ lineshaft diameter: inches ☐ bearing spacing: feet

☐ DISCHARGE HEAD

- ☐ construction: ☐ cast iron ☐ fabricated steel (required for VFD)
- ☐ configuration: ☐ type L ☐ type F ☐ type T ☐ type UF
- ☐ shaft sealing: ☐ packing ☐ mechanical seal ☐ oil lube
- ☐ discharge flange size: inches
- ☐ discharge flange class: ☐ ANSI 125/150 ☐ ANSI 250/300
- ☐ drive shaft material: ☐ carbon steel ☐ 416SS ☐ 304/316SS
- ☐ NSF 61 epoxy coatings: ☐ none ☐ interior ☐ exterior

MOTOR

- [ ] HP: PH: HZ: VOLTS: RPM:
- [ ] configuration: [ ] vertical hollow shaft
- [ ] enclosure: [ ] WP1 [ ] TEFC
- [ ] efficiency class: [ ] standard [ ] premium efficient
- [ ] VFD control: [ ] none [ ] inverty duty [ ] shaft grounding ring
- [ ] coupling type: [ ] non-reverse ratchet
- [ ] options: [ ] thermostats [ ] thermistors [ ] steady bushing

INSTALLATION & STARTUP REQUIREMENTS

- [ ] measure & document shaft runout for every 2.5' of shaft - 0.005" maximum
- [ ] measure & document length of each section of column and shaft
- [ ] measure & document shaft stickup after each section of column is assembled
- [ ] verify, check & document correct direction of motor rotation
- [ ] verify & document required lateral clearance allowing for shaft stretch
- [ ] adjust & document lateral clearance
- [ ] verify & document lineshaft lubrication requirements are satisfied
- [ ] check & document performance using field instrumentation
- [ ] measure & document vibration amplitude at 3 points on the motor
- [ ] include provisions for correcting any unsatisfactory conditions

NOTES & OTHER CONSIDERATIONS

- [ ] unit responsibility
- [ ] critical frequency analysis (VFD applications)
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