APPLICATION TO INSTALL ALTERNATE PROCESS EQUIPMENT

FACILITY NAME _____

FACILITY ADDRESS _____

OWNER _____ PHONE _____

OWNER'S ADDRESS _____

INSTALLER _____ PHONE _____

INSTALLER'S ADDRESS _____

DATA:

Water volume _____ gals Minimum turnover _____ hrs Minimum flow _____ gpm

Alternate process equipment: ☐ O_3 ☐ Cu/Ag ☐ UV/H_2O_2 ☐ In-line electrolytic chlorine generator

☐ Other _____ Mfr _____ Model # _____

Quantity _____ ☐ NSF listed ☐ UL listed ☐ Connected to GFI protected circuit ☐ Operated in conjunction with an approved disinfectant and feeder ☐ Plumbing diagram & hydraulics calculations

☐ Booster pump required

_____ _____

Signature of person preparing form Date

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AREA BELOW RESERVED FOR CLARK COUNTY HEALTH DISTRICT USE ONLY!

CLARK COUNTY HEALTH DISTRICT APPROVAL BY:_____

DATE: _____

APPROVAL IS NOT INTENDED TO CONVEY APPROVAL FOR ANY MISTAKE OR OMISSIONS CONTAINED HEREIN. PROPER DEVELOPMENT IS THE RESPONSIBILITY OF THE VARIOUS PARTIES CONCERNED AND ALL APPLICABLE LAWS, RULES AND REGULATIONS SHALL BE STRICTLY ADHERED TO.

Disinfectant feeder: ☐ Adjustable rate ☐ Flow through ☐ Cl_2 gas ☐ Other_____
Mfr _____ Model #_____ Quantity _____

Maximum pool capacity _____ gallons ☐ NSF listed
Other chemical feeders: Type _____ Mfr_____

Model # _____ Quantity _____ ☐ NSF listed ☐ UL Listed
Pump: Quantity _____ Mfr _____ Model #_____

_____ HP _____ Phase _____ gpm @ _____ TDH ☐ NSF listed

Booster pump: For ☐ Solar heater ☐ Alternate process equipment ☐ Gas Cl_2

☐ Other _____ Mfr _____ Model #_____ _____ HP

CALCULATION OF TOTAL DYNAMIC HEAD

INCLUDE ALL PIPE, FITTINGS, ALTERNATE PROCES EQUIPMENT, AND VALVES

	EQUIV. LIN. FT.	FT. OF HEAD
Loss in feet of head prior to installation of heater (from previous calculation or from vacuum and pressure gauges……..		_____
_____ lineal feet of _____" diameter pipe……		_____
_____ ell(s) 45 _____", each equivalent to _____ ft. of straight pipe – total……		_____
_____ ell(s) 90 _____", each equivalent to _____ ft. of straight pipe – total……		_____
_____ tee(s) _____", each equivalent to _____ ft. of straight pipe – total……		_____
_____ adapter(s) _____", each equivalent to _____ ft. of straight pipe – total……		_____
_____ reduction(s) _____" to _____" - loss in ft. of head…….		_____
_____ enlargement(s) _____" to _____" – loss in ft of head……		_____
_____ _____ valve(s) _____", each equivalent to _____ ft. of straight pipe total……		_____
_____ _____ _____", each equivalent to _____ ft. of straight pipe total……		_____
Equivalent length of piping – total (add all equivalent lineal feet)……..		_____
Loss in feet of head due to friction in _____ feet of _____" pipe at _____ gpm……		_____
_____ alternate process equipment _____" – loss in feet of head……...		_____

Velocity through alternate process equipment piping _____ feet/sec.

NOTES:

1. Use the actual flow from the flowmeter as the gpm for this section.
2. Feet of head = $\frac{\text{total equivalent lineal feet}}{100}$ x loss in feet (from friction/flow chart)
3. Obtain velocity from friction/flow chart

FINAL CALCULATIONS

TOTAL DYNAMIC HEAD (TDH)

TDH, clean filter – after installation of device (add figures in feet of head column on page 2)…..……_____

TDH, actual (from vacuum and pressure gauge readings)…….._____

FLOW

GPM, clean filter – prior to installation of device (from flowmeter)……_____ gpm

GPM, clean filter – after installation of device (calculated)……..._____ gpm

GPM, clean filter – after installation of device (from flowmeter)……..……_____ gpm

TURNOVER

Turnover, prior to installation of device……..._____ hours

Turnover, after installation of device (calculated)…….._____ hours

Turnover, after installation of device (actual)……..…._____ hours

PIPING DIAGRAM

Scale: