C.Q.M.

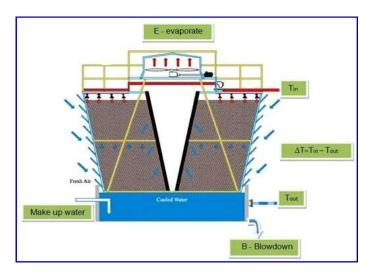
K.A.N.- Japan Corporation

CONSOLIDATED REPORT OF TOTAL SAVINGS FROM SRS INSTALLATION

CUSTOMER: INSTALLATION SITE: COOLING TOWER SIZE (TR) YEAR OF INSTALLATION

Dai Nippon Printing

0 480 2005



CALCULATION OF EVAPORATION FLOW RATE ACO	RDING TO:	mc _P ΔT= E λ
m - Cooling water flow in the system [Ton / hr]	304	Ton/hr
TR - Cooling tower capacity [TR]	480	TR
Cp - Specific heat - [Ton cal / Ton water oc]	1	Ton cal / Ton water °C
Ti - inlet cooling water temp [°c]	22.3	°C
To -outlet cooling water temp [oc]	18.0	°C
?T - ?T = Ti - To	4.4	
Cooling tower conductivity withuot CQM	1,351	μs
Cooling tower conductivity with CQM	4500	μs
Makeup water conductivity µs	358	μs
λ latent heat evaporating water temp. [Ton Cal / Ton w	540	Ton cal / Ton water °C
E - Evaporating water [Ton / hr]	2.46	Ton/hr

SAVINGS IN DRAINAGE FLOW RATE:			B = E/ (C-1)
	BEF. SRS	WITH SRS	SAVINGS
B - Drainage flow rate	0.88	0.21	0.67 Ton/hr
E - Evaporation flow rate	2.46	2.46	Ton/hr
C - Concentration cycle	3.78	12.58	

CALCULATION OF SAVINGS:			
Cooling tower working hours per year	4500	hr/yr	
Average utilization capacity	80%	usd / m3	
Cost of one cubic water	1.42	usd / m3	
Cost of chemical treatment to one cubic water	0.68	usd / m3	
Water savings from drainage	3,443	usd / m3	
Chemical treatment savings	18,163	usd / m3	
Water savings from re-utilization	1,087	usd	
TOTAL SAVINGS	22,693	usd/yr	