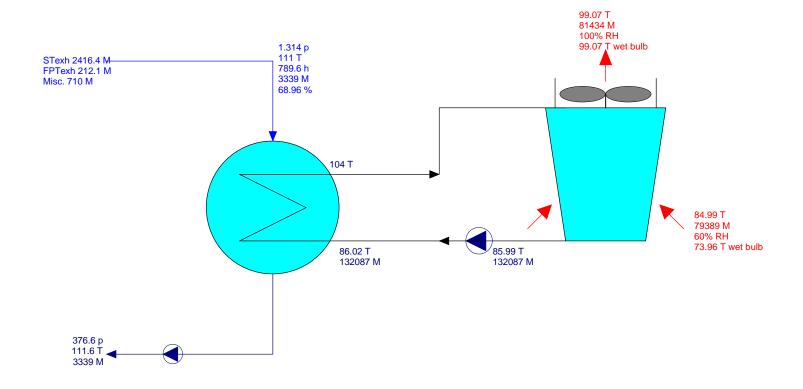
Intermediate Loop to Steam Generator Only - Reheat at LP Crossover Excludes Reactor Island Auxiliary Loads

STEAM PRO 23.00 BR 84 03-07-2013 15:54:59 Steam Properties: IAPWS-IF97

FILE: G:\text{G:XTransAtomic\PRELIMINARY DESIGN - INTERMEDIATE LOOP TO SG ONLY - RH AT LP CROSSOVER.STP CYCLE SCHEMATIC p[psia], T[F], h[BTU/lb], m[kpph]

Condenser heat rejection	659012	BTU/s
Condensate pump power	1638.6	kW
CW circulation pump power	5737	kW
Cooling tower fan	2562.1	kW
CW blowdown	511.2	kpph
CW makeup	2556	kpph



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		P	Т	h	M
		psia	F	BTU/lb	kpph
LPT exhaust		1.314	111.00	978.3	2412.4
LPT SS to condenser				1202.6	4
FPT exhaust		1.445	114.33	979.1	212.1
Drain from GSC		12.000	202.03	170.0	2.8
Flashed from FWH(s)				89.5	707.2
Condenser in		1.314	111.00	789.6	3339
Condensate well		5.652	111.01	79.0	3339
Before C.W. pump			85.99		132087
After C.W. pump			86.02		132087
Cooling water in			86.02		132087
Cooling water out			104.05		132087
		COOLING TOWER (Mech	•		
	Р	T	Twet bulb	M	RH
	P psia	T F	Twet bulb	kpph	%
Air in	P psia 14.70	T F 84.99	Twet bulb F 73.96	kpph 79389	% 60.0
	P psia	T F	Twet bulb	kpph	60.0
Air out	P psia 14.70	T F 84.99 99.07	Twet bulb F 73.96	kpph 79389 81434	% 60.0
Air out C.W. from main condenser	P psia 14.70 14.70	T F 84.99 99.07	Twet bulb F 73.96	kpph 79389 81434 132087	% 60.0
Air out C.W. from main condenser Hot water in	P psia 14.70 14.70 30.17	T F 84.99 99.07 104.05 104.07	Twet bulb F 73.96	kpph 79389 81434 132087 132087	% 60.0
Air out C.W. from main condenser Hot water in Cold water out	P psia 14.70 14.70	T F 84.99 99.07	Twet bulb F 73.96	kpph 79389 81434 132087 132087 132087	
C.W. from main condenser Hot water in Cold water out Makeup	P psia 14.70 14.70 30.17	T F 84.99 99.07 104.05 104.07	Twet bulb F 73.96	kpph 79389 81434 132087 132087	60.0
C.W. from main condenser Hot water in Cold water out Makeup	P psia 14.70 14.70 30.17	T F 84.99 99.07 104.05 104.07	Twet bulb F 73.96	kpph 79389 81434 132087 132087 132087 2556	60.0
Air out C.W. from main condenser Hot water in Cold water out Makeup Blowdown	P psia 14.70 14.70 30.17	T F 84.99 99.07 104.05 104.07	Twet bulb F 73.96	kpph 79389 81434 132087 132087 132087 2556	60.0
Air out C.W. from main condenser Hot water in	P psia 14.70 14.70 30.17	T F 84.99 99.07 104.05 104.07 85.99	Twet bulb F 73.96 99.07	kpph 79389 81434 132087 132087 132087 2556	% 60.0