

CONFORME

004837

Air System #14 (Uma-n2-induc) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.487		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			132	0.100	10
Zone Loads	893	0.281	14,389	10.900	1,063
Sensible Reserve			0	0.000	0
Zone Condition	893	8.768	14,521	23.000	1,073
Return Air Duct			132	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 245 L/s	6,675	2.102	2,112	1.577	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	7,567	10.869	16,765	24.677	

MR. DAVID HECTOR TORRES PUNTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
 TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
 TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
 GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH =	1.000 x	1.23 x	1,073 x (	24.677 -	12.000) =	16,736 Watts
TLH =	1.000 x	2.96 x	1,073 x (	10.869 -	8.487) =	7,570 Watts
SUM =						24,305 Watts
GTH =	1.000 x	1.20 x	1,073 x (	52.570 -	33.562) =	24,481 Watts
Total System Load						24,333 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s =	24,481 / (	5.00 x	4,179)	=	1.2 L/s
Heating L/s =	10,135 / (	10.00 x	4,179)	=	0.2 L/s
Steam Req. =	10,135 /	970		=	10.45 kg./hr

Entering Cooling Coil Conditions	Entering Heating Coil Conditions
----------------------------------	----------------------------------

Dry bulb temperature: 24.68	Dry bulb temperature: 20.67
Wet bulb temperature: 18.57	
Relative humidity: 56.04	
Enthalpy: 52.57 kJ/kg	

Leaving Cooling Coil Conditions	Leaving Heating Coil Conditions
---------------------------------	---------------------------------

Dry bulb temperature: 12.00	Dry bulb temperature: 32.00
Wet bulb temperature: 11.76	
Relative humidity: 97.27	
Enthalpy: 33.56 kJ/kg	



Nestor Enrique Ruiz R. ;
 Ingeniero



CONSORCIO CONSULTOR SAUL GARRIDO
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 6177°

Handwritten text at the top of the page, possibly a title or header.

Handwritten text in the middle-left section of the page.

Handwritten text in the bottom-left section, including a signature.

Handwritten text in the bottom-right section.

Handwritten text at the very bottom of the page.

CONFORME

004836



Air System #15 (Uma-n2-so-cirugia) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.032		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			68	0.100	5
Zone Loads	1,214	0.738	4,803	7.031	355
Sensible Reserve			2,642	3.868	195
Zone Condition	1,214	8.770	7,514	23.000	555
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 555 L/s	15,110	9.192	4,782	7.000	
Blow-Thru Fan			415	0.607	
Entering Coil Condition	16,324	17.962	12,710	30.607	555

[Handwritten Signature]
 ING. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
 TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
 TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
 GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 555 x (30.607 - 12.000) = 12,711 Watts
 TLH = 1.000 x 2.96 x 555 x (17.962 - 8.032) = 16,325 Watts

SUM = 29,035 Watts
 GTH = 1.000 x 1.20 x 555 x (76.794 - 32.413) = 29,577 Watts
 Total System Load = 29,034 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 29,577 / (5.00 x 4,179) = 1.4 L/s
 Heating L/s = 3,302 / (10.00 x 4,179) = 0.1 L/s
 Steam Req. = 3,302 / 970 = 3.40 kg./hr

Entering Cooling Coil Conditions Entering Heating Coil Conditions

Dry bulb temperature: 30.61 Dry bulb temperature: 18.00
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Leaving Cooling Coil Conditions Leaving Heating Coil Conditions

Dry bulb temperature: 12.00 Dry bulb temperature: 35.00
 Wet bulb temperature: 11.29
 Relative humidity: 92.11
 Enthalpy: 32.41 kJ/kg



[Handwritten Signature]
 Nestor Enrique Ruiz P.
 Ingeniero Mecánico
 Reg. CIP 29866

[Handwritten Signature]
 CONSORCIO CONSULTOR SAUL GARRIDO
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Handwritten Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 24776

31/1/00

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

[Faint handwritten text]

CONFORME

004885



Air System #16 (Uma-n2-so-est) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.613		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			189	0.100	14
Zone Loads	709	0.156	20,601	10.900	1,523
Sensible Reserve			0	0.000	0
Zone Condition	709	8.769	20,790	23.000	1,537
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 1,537 L/s	41,808	9.193	13,230	7.000	
Blow-Thru Fan			1,148	0.607	
Entering Coil Condition	42,517	17.962	35,168	30.607	1,537

ARQ. DAVID HECTOR TORRES PUENTE
CAP. 5776
JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

- PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
- TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
- TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
- GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH	=	1.000	x	1.23	x	1,537	x	(	30.607	-	12.000	)	=	35,169	Watts
TLH	=	1.000	x	2.96	x	1,537	x	(	17.962	-	8.613	)	=	42,524	Watts
SUM	=												=	77,692	Watts
GTH	=	1.000	x	1.20	x	1,537	x	(	76.794	-	33.881	)	=	79,129	Watts
Total System Load													=	77,685	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s	=	79,129	/	(	5.00	x	4,179	)	=	3.8	L/s
Heating L/s	=	13,901	/	(	10.00	x	4,179	)	=	0.3	L/s
Steam Req.	=	13,901	/	970	=	14.33	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature:	30.61
Wet bulb temperature:	25.16
Relative humidity:	64.73
Enthalpy:	76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	18.00
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.88
Relative humidity:	98.69
Enthalpy:	33.88 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	35.00
-----------------------	-------



Nestor Enrique Ruiz R.
Ingeniero Mecánico
Reg. CIP 29866



MANUEL DONATO GARCÍA JAVE
ING. MECÁNICO-ELECTRICISTA
REG. CIP N° 69138

CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI N° 21546425

Edward Cerón Torres
JEFE DE PROYECTO
C.I.P. N° 61778

001831

1977

1977
1977

1977

1977

CONFORME

004884



Air System #17 (Uma-n2-lab. Inmunoheemt.) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.400		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			93	0.100	7
Zone Loads	824	0.370	9,041	9.766	668
Sensible Reserve			1,049	1.133	78
Zone Condition	824	8.770	10,183	23.000	753
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 753 L/s	21,419	9.615	5,554	6.000	
Blow-Thru Fan			562	0.607	
Entering Coil Condition	22,243	18.385	16,299	29.607	753

[Signature]
ABO. DAVID HECTOR TORRES BUENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

- PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
- TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
- TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
- GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 753 x (29.607 - 12.000) = 16,300 Watts
 TLH = 1.000 x 2.96 x 753 x (18.385 - 8.400) = 22,244 Watts
 SUM = 38,544 Watts
 GTH = 1.000 x 1.20 x 753 x (76.836 - 33.344) = 39,281 Watts
 Total System Load = 38,542 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 39,281 / (5.00 x 4,179) = 1.9 L/s
 Heating L/s = 10,384 / (10.00 x 4,179) = 0.2 L/s
 Steam Req. = 10,384 / 970 = 10.70 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 29.61
 Wet bulb temperature: 25.16
 Relative humidity: 70.11
 Enthalpy: 76.84 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.67
 Relative humidity: 96.31
 Enthalpy: 33.34 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



[Signature]
MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 69138

[Signature]
Nestor Enrique Ruiz R.
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJAL MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

[Signature]
EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

004883



Air System #18 (N2 Unidad Precisión) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		7.272		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			289	0.100	29
Zone Loads	63	0.009	22,834	7.900	2,320
Sensible Reserve			0	0.000	0
Zone Condition	63	7.282	23,123	20.000	2,350
Return Air Duct			289	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 64 L/s	1,882	0.271	631	0.216	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	1,945	7.552	24,043	20.316	2,350

DAVID HECTOR TORRES PUENTE
CAP. 5776
JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

- PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
- TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
- TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
- GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 2,350 x (20.316 - 12.000) = 24,036 Watts
 TLH = 1.000 x 2.96 x 2,350 x (7.552 - 7.272) = 1,945 Watts
 SUM = 25,980 Watts
 GTH = 1.000 x 1.20 x 2,350 x (39.676 - 30.497) = 25,881 Watts
 Total System Load = 25,988 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 25,881 / (5.00 x 4,179) = 1.2 L/s
 Heating L/s = 3,089 / (10.00 x 4,179) = 0.1 L/s
 Steam Req. = 3,089 / 970 = 3.18 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 20.32
 Wet bulb temperature: 14.17
 Relative humidity: 51.02
 Enthalpy: 39.68 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.88

Leaving Cooling Coil Conditions

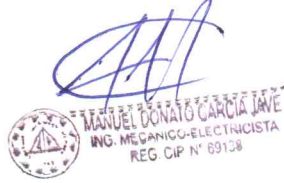
Dry bulb temperature: 12.00
 Wet bulb temperature: 10.50
 Relative humidity: 83.53
 Enthalpy: 30.50 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



Nestor Enrique Ruiz R.
Ingeniero Mecánico
Reg. CIP 29865



CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI Nº 21546425

EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 61778

Section 101 (a) (1) (A) (i) (I)

Section 101 (a) (1) (A) (i) (I)



Section 101 (a) (1) (A) (i) (I)

Section 101 (a) (1) (A) (i) (I)

CONFORME

007832



Air System #19 (Uma-n3-hosp) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.565		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			171	0.100	13
Zone Loads	840	0.204	18,660	10.900	1,379
Sensible Reserve			0	0.000	0
Zone Condition	840	8.768	18,831	23.000	1,392
Return Air Duct			171	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 232 L/s	5,191	1.260	1,993	1.148	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	6,031	10.029	20,995	24.248	1,392

[Handwritten Signature]

ING. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)

TSH = PR x 1.23 x L/s x (DB entering - DB leaving)

TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)

GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 1,392 x (24.248 - 12.000) = 20,967 Watts

TLH = 1.000 x 2.96 x 1,392 x (10.029 - 8.565) = 6,032 Watts

SUM = 27,000 Watts

GTH = 1.000 x 1.20 x 1,392 x (49.989 - 33.758) = 27,108 Watts

Total System Load = 27,026 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 27,108 / (5.00 x 4,179) = 1.3 L/s

Heating L/s = 11,367 / (10.00 x 4,179) = 0.3 L/s

Steam Req. = 11,367 / 970 = 11.72 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 24.25

Wet bulb temperature: 17.75

Relative humidity: 53.12

Enthalpy: 49.99 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.91

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00

Wet bulb temperature: 11.83

Relative humidity: 98.14

Enthalpy: 33.76 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



[Handwritten Signature]

MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 63109

[Handwritten Signature]

Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29663

CONSORCIO CONSULTOR SAUL GARRIDO

[Handwritten Signature]

C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

[Handwritten Signature]

EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

004881



Air System #20 (Uma-n3-aisl.pediat) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.560		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			34	0.100	3
Zone Loads	168	0.208	3,655	10.899	270
Sensible Reserve			0	0.000	0
Zone Condition	168	8.768	3,688	23.000	273
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 273 L/s	7,417	9.194	2,347	7.000	
Blow-Thru Fan			204	0.607	
Entering Coil Condition	7,585	17.962	6,239	30.607	273

[Signature]
 ING. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
 TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
 TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
 GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 273 x (30.607 - 12.000) = 6,239 Watts
 TLH = 1.000 x 2.96 x 273 x (17.962 - 8.560) = 7,587 Watts

SUM = 13,827 Watts
 GTH = 1.000 x 1.20 x 273 x (76.794 - 33.747) = 14,083 Watts
 Total System Load = 13,731 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 14,083 / (5.00 x 4,179) = 0.7 L/s
 Heating L/s = 2,607 / (10.00 x 4,179) = 0.1 L/s
 Steam Req. = 2,607 / 970 = 2.69 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.83
 Relative humidity: 98.11
 Enthalpy: 33.75 kJ/kg



Leaving Heating Coil Conditions

Dry bulb temperature: 35.00

[Signature]
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 63138

[Signature]
 Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LOISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

004880



Air System #21 (Uma-n3-aisl.adulto) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.622		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			42	0.100	3
Zone Loads	151	0.148	4,612	10.871	341
Sensible Reserve			12	0.028	1
Zone Condition	151	8.770	4,666	23.000	345
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 345 L/s	9,384	9.192	2,969	7.000	
Blow-Thru Fan			258	0.607	
Entering Coil Condition	9,535	17.962	7,893	30.607	

Handwritten signature

ARG. DAVID HECTOR TORRES PUENTE
 CAP. 5776 345
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
 TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
 TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
 GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 345 x (30.607 - 12.000) = 7,893 Watts
 TLH = 1.000 x 2.96 x 345 x (17.962 - 8.622) = 9,535 Watts

SUM = 17,429 Watts
 GTH = 1.000 x 1.20 x 345 x (76.794 - 33.904) = 17,751 Watts
 Total System Load = 17,313 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 17,751 / (5.00 x 4,179) = 0.8 L/s
 Heating L/s = 3,494 / (10.00 x 4,179) = 0.1 L/s
 Steam Req. = 3,494 / 970 = 3.60 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61
 Wet bulb temperature: 25.16
 Relative humidity: 64.73
 Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00
 Wet bulb temperature: 11.89
 Relative humidity: 98.78
 Enthalpy: 33.90 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00



Handwritten signature
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 69138

Handwritten signature
 Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29853

CONSORCIO CONSULTOR SAUL GARRIDO
Handwritten signature
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMUN
 DWH N° 21546425

Handwritten signature
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

CONFORME

004879



Air System #22 (Uma-n3-aisl.obst) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.564		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			47	0.100	4
Zone Loads	235	0.206	5,139	10.841	380
Sensible Reserve			27	0.057	2
Zone Condition	235	8.770	5,213	23.000	385
Return Air Duct			0	0.000	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 385 L/s	10,485	9.192	3,318	7.000	
Blow-Thru Fan			288	0.607	
Entering Coil Condition	10,720	17.962	8,819	30.607	

[Handwritten Signature]
ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 5776 385
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)

TSH = PR x 1.23 x L/s x (DB entering - DB leaving)

TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)

GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 385 x (30.607 - 12.000) = 8,820 Watts

TLH = 1.000 x 2.96 x 385 x (17.962 - 8.564) = 10,721 Watts

SUM = 19,541 Watts

GTH = 1.000 x 1.20 x 385 x (76.794 - 33.757) = 19,902 Watts

Total System Load = 19,274 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 19,902 / (5.00 x 4,179) = 1.0 L/s

Heating L/s = 3,458 / (10.00 x 4,179) = 0.1 L/s

Steam Req. = 3,458 / 970 = 3.57 kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature: 30.61

Wet bulb temperature: 25.16

Relative humidity: 64.73

Enthalpy: 76.79 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 18.00

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00

Wet bulb temperature: 11.83

Relative humidity: 98.14

Enthalpy: 33.76 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 35.00

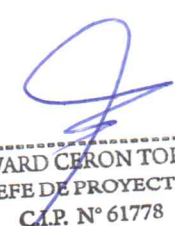


[Handwritten Signature]
Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29803



[Handwritten Signature]
CONSORCIO CONSULTOR SAUL GARRIDO

[Handwritten Signature]
C.P.C. MARIA/LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425



EDWARD CERÓN TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61778

1950

1950

Department of the Interior
Bureau of Land Management
Washington, D.C.

Very truly yours,
[Signature]

CONFORME

004878



Air System #24 (Uma-n2-recup) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.637		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			89	0.100	7
Zone Loads	284	0.132	9,716	10.899	718
Sensible Reserve			0	0.000	0
Zone Condition	284	8.769	9,805	23.000	725
Return Air Duct			89	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 172 L/s	4,666	2.175	1,477	1.633	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	4,950	10.945	11,371	24.733	725

[Signature]
 D. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISION

General Psychrometric Equations Used In Analysis:

- PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
- TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
- TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
- GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH =	1.000	x	1.23	x	725	x	(	24.733	-	12.000	) =	11,351	Watts
TLH =	1.000	x	2.96	x	725	x	(	10.945	-	8.637	) =	4,950	Watts
SUM =												16,301	Watts	
GTH =	1.000	x	1.20	x	725	x	(	52.818	-	33.941	) =	16,417	Watts
Total System Load												=	16,321	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s =	16,417	/	(	5.00	x	4,179	)	=	0.8	L/s
Heating L/s =	5,188	/	(	10.00	x	4,179	)	=	0.1	L/s
Steam Req. =	5,188	/	970	=	5.35	kg./hr				

Entering Cooling Coil Conditions

Dry bulb temperature:	24.73
Wet bulb temperature:	18.64
Relative humidity:	56.22
Enthalpy:	52.82 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.10
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.91
Relative humidity:	98.95
Enthalpy:	33.94 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



[Signature]
 Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMUN
 DNI Nº 21546425

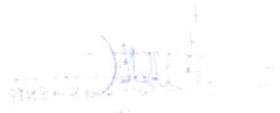


MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. C.P. Nº 60128

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61778

10/10/05

10/10/05



Faint, illegible text located below the circular stamp in the upper left area.

10/10/05

10/10/05

Faint, illegible text located in the lower right quadrant of the page.

CONFORME

004877



Air System #25 (Uma-n3-hosp.adult) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.539		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			227	0.100	17
Zone Loads	1,263	0.231	24,476	10.793	1,809
Sensible Reserve			242	0.107	18
Zone Condition	1,263	8.770	24,944	23.000	1,844
Return Air Duct			227	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 263 L/s	7,142	1.309	2,260	0.982	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	8,405	10.079	27,431	24.082	

[Handwritten signature]

ARQ. DAVID HECTOR TORRES PUENTE
CAP. 5776
JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)

TSH = PR x 1.23 x L/s x (DB entering - DB leaving)

TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)

GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 1,844 x (24.082 - 12.000) = 27,399 Watts

TLH = 1.000 x 2.96 x 1,844 x (10.079 - 8.539) = 8,405 Watts

SUM = 35,804 Watts

GTH = 1.000 x 1.20 x 1,844 x (49.947 - 33.693) = 35,960 Watts

Total System Load = 35,559 Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s = 35,960 / (5.00 x 4,179) = 1.7 L/s

Heating L/s = 13,268 / (10.00 x 4,179) = 0.3 L/s

Steam Req. = 13,268 / 970 = 13.68 kg/hr

Entering Cooling Coil Conditions

Dry bulb temperature: 24.08

Wet bulb temperature: 17.74

Relative humidity: 53.91

Enthalpy: 49.95 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature: 20.94

Leaving Cooling Coil Conditions

Dry bulb temperature: 12.00

Wet bulb temperature: 11.81

Relative humidity: 97.85

Enthalpy: 33.69 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature: 32.00



[Handwritten signature]
Nestor Enrique Ruiz
Ingeniero Mecánico
Reg. CIP 29803

CONSORCIO CONSULTOR SAUL GARRIDO
[Handwritten signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI Nº 21546425

[Handwritten signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 41770

[Handwritten signature]
MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP Nº 69138

378460

3 July 1951

The enclosed is a copy of the report
of the investigation conducted by the
Department of the Interior, Bureau of
Reclamation, on the subject of the
proposed construction of a dam on the
Colorado River at the mouth of the
Gulf of California.

RECEIVED
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
WASHINGTON, D. C.

CONFORME

004876



Air System #26 (Uma-n3-hosp.obst) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.573		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			250	0.100	19
Zone Loads	1,176	0.195	27,255	10.900	2,014
Sensible Reserve			0	0.000	0
Zone Condition	1,176	8.769	27,505	23.000	2,033
Return Air Duct			250	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 232 L/s	5,195	0.863	1,995	0.780	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	6,371	9.632	29,750	23.886	2,033

[Signature]
 DR. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN

General Psychrometric Equations Used In Analysis:

- PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
- TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
- TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
- GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH =	1.000	x	1.23	x	2,033	x	(	23.886	-	12.000	) =	29,722	Watts
TLH =	1.000	x	2.96	x	2,033	x	(	9.632	-	8.573	) =	6,372	Watts
SUM =												36,094	Watts	
GTH =	1.000	x	1.20	x	2,033	x	(	48.609	-	33.780	) =	36,176	Watts
Total System Load												=	36,121	Watts

Chilled and Hot Water Flow Rates and Steam Requirement

Cooling L/s =	36,176	/	(	5.00	x	4,179	)	=	1.7	L/s
Heating L/s =	12,253	/	(	10.00	x	4,179	)	=	0.3	L/s
Steam Req. =	12,253	/	970					=	12.63	kg./hr

Entering Cooling Coil Conditions

Dry bulb temperature:	23.89
Wet bulb temperature:	17.30
Relative humidity:	52.17
Enthalpy:	48.61 kJ/kg

Entering Heating Coil Conditions

Dry bulb temperature:	20.99
-----------------------	-------

Leaving Cooling Coil Conditions

Dry bulb temperature:	12.00
Wet bulb temperature:	11.84
Relative humidity:	98.24
Enthalpy:	33.78 kJ/kg

Leaving Heating Coil Conditions

Dry bulb temperature:	32.00
-----------------------	-------



[Signature]
 Nestor Enrique Ruiz F.
 Ingeniero Mecánico
 Reg. CIP 29863

[Signature]
 CONSORCIO CONSULTOR SAUL GARRIDO
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Signature]
 MANUEL DONATO GARCIA LAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP Nº 69138

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61779

2011 01 01

2011 01 01

2011 01 01
2011 01 01
2011 01 01

2011 01 01
2011 01 01
2011 01 01

2011 01 01
2011 01 01
2011 01 01

2011 01 01
2011 01 01
2011 01 01

CONFORME

004875

Air System #27 (Uma-n3-hosp.ped) Psychrometric Analysis

System Load Analysis	Latent	Grams	Sensible	Temp	L/s
Leaving Coil Condition		8.498		12.000	
Draw-Thru Fan			0	0.000	0
Misc Load on Supply Side			0	0.000	0
Supply Air Duct			164	0.100	12
Zone Loads	1,076	0.272	16,979	10.324	1,255
Sensible Reserve			947	0.576	70
Zone Condition	1,076	8.770	18,091	23.000	1,337
Return Air Duct			164	0.100	
Return Air Plenum			0	0.000	
Misc Load on Return Side			0	0.000	
Vent Air 179 L/s	4,857	1.227	1,537	0.921	
Blow-Thru Fan			0	0.000	
Entering Coil Condition	5,933	9.997	19,792	24.021	1,337

[Signature]
 ARQ. DAVID MECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISION

General Psychrometric Equations Used In Analysis:

PR = (Barometric pressure of site / Standard ASHRAE pressure of 1010.387)
 TSH = PR x 1.23 x L/s x (DB entering - DB leaving)
 TLH = PR x 2.96 x L/s x (g/kg entering - g/kg leaving)
 GTH = PR x 1.20 x L/s x (Enthalpy entering - Enthalpy leaving)

TSH = 1.000 x 1.23 x 1,337 x (24.021 - 12.000) = 19,771 Watts
 TLH = 1.000 x 2.96 x 1,337 x (9.997 - 8.498) = 5,933 Watts

SUM = 25,704 Watts
 GTH = 1.000 x 1.20 x 1,337 x (49.677 - 33.591) = 25,810 Watts
 Total System Load = 25,725 Watts

Chilled and Hot Water Flow Rates and Steam Requirement


Cooling L/s = 25,810 / (5.00 x 4,179) = 1.2 L/s
 Heating L/s = 9,373 / (10.00 x 4,179) = 0.2 L/s
 Steam Req. = 9,373 / 970 = 9.66 kg/hr

Entering Cooling Coil Conditions Entering Heating Coil Conditions


Dry bulb temperature: 24.02 Dry bulb temperature: 20.98
 Wet bulb temperature: 17.65
 Relative humidity: 53.67
 Enthalpy: 49.68 kJ/kg

Leaving Cooling Coil Conditions Leaving Heating Coil Conditions

Dry bulb temperature: 12.00 Dry bulb temperature: 32.00
 Wet bulb temperature: 11.77
 Relative humidity: 97.40
 Enthalpy: 33.59 kJ/kg


[Signature]
 Nestor Enrique Ruiz
 Ingeniero Mecánico
 Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425


[Signature]
 MANUEL DONATO GARCÍA JÁVE
 ING. MECÁNICO-ELECTRICISTA
 REG. CIP Nº 69138
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61778

10/10/10

10/10/10



CONFORME

004874

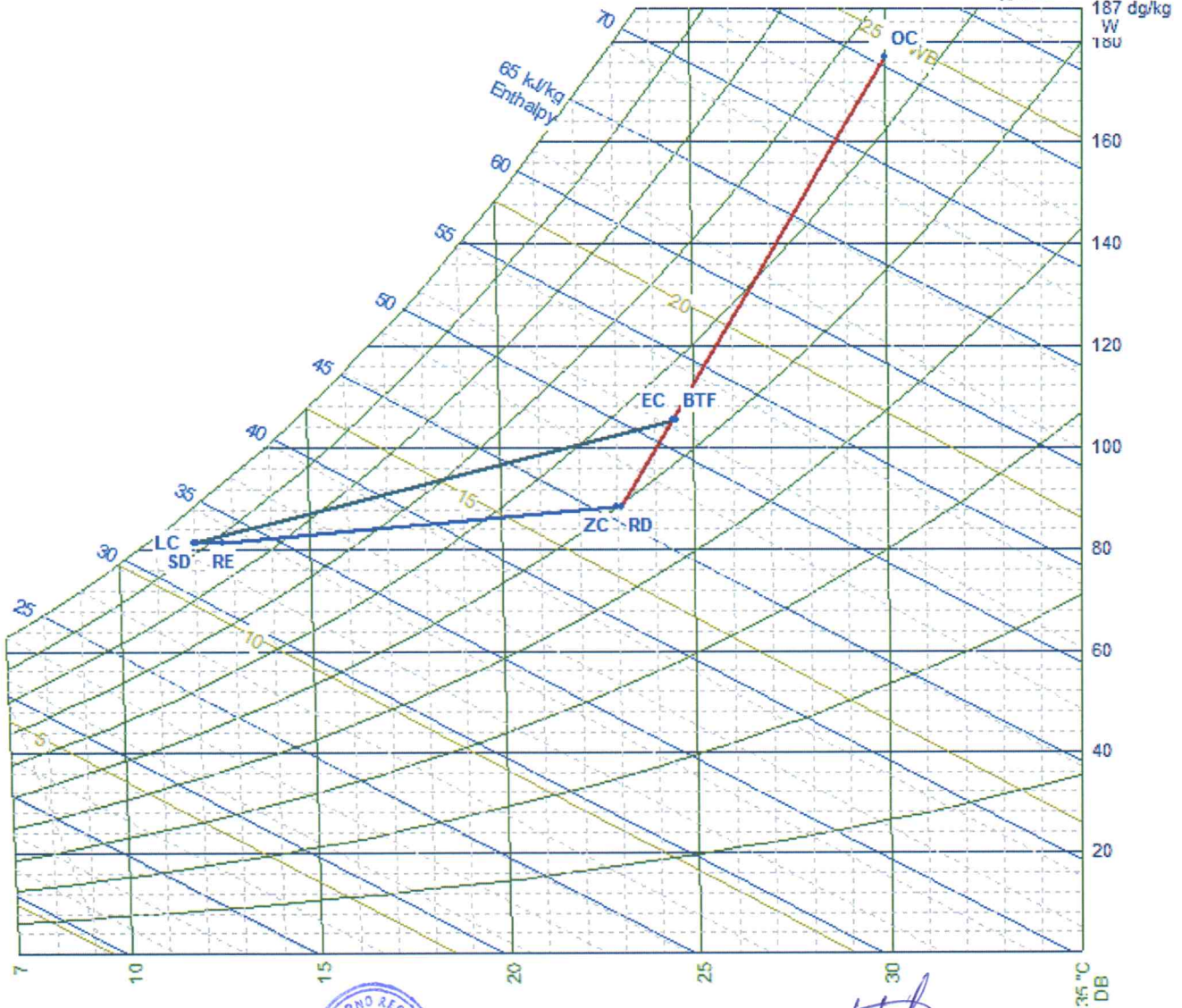


Air System #1 (Fc) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
DAVID HECTOR TORRES PUNTE
 CAP. 5776
 JEFE DE SUPERVISIÓN



[Signature]
Nestor Enrique Ruiz F.
 Ingeniero Mecánico
 Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Signature]
MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP Nº 69138

[Signature]
EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.F. Nº 61700

000000

000000

000000
000000
000000



000000

000000

000000

CONFORME

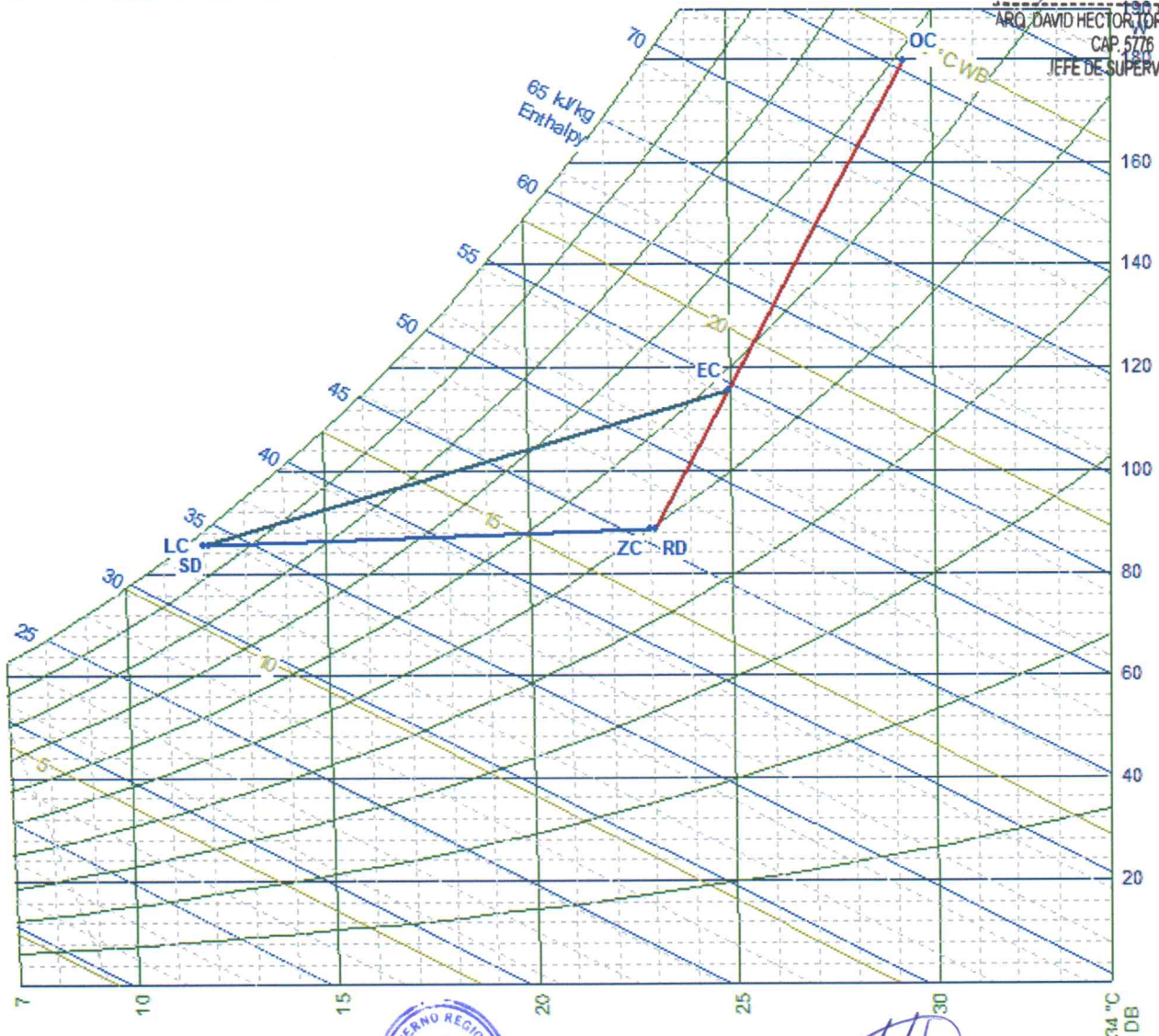
004873



Air System #2 (Uma-n1-obs) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

Handwritten signature



ING. DAVID HECTOR TORRES PUENTE
CAP. 6776
JEFE DE SUPERVISIÓN



Handwritten signature
MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 63133

Handwritten signature
Nestor Enrique Ruiz
Ingeniero Mecánico
Reg. CIP 69413

CONSORCIO CONSULTOR SAUL GARRIDO
Handwritten signature
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMUN
DNI N° 21546425

Handwritten signature
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.D. N° 61770

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

CONFORME

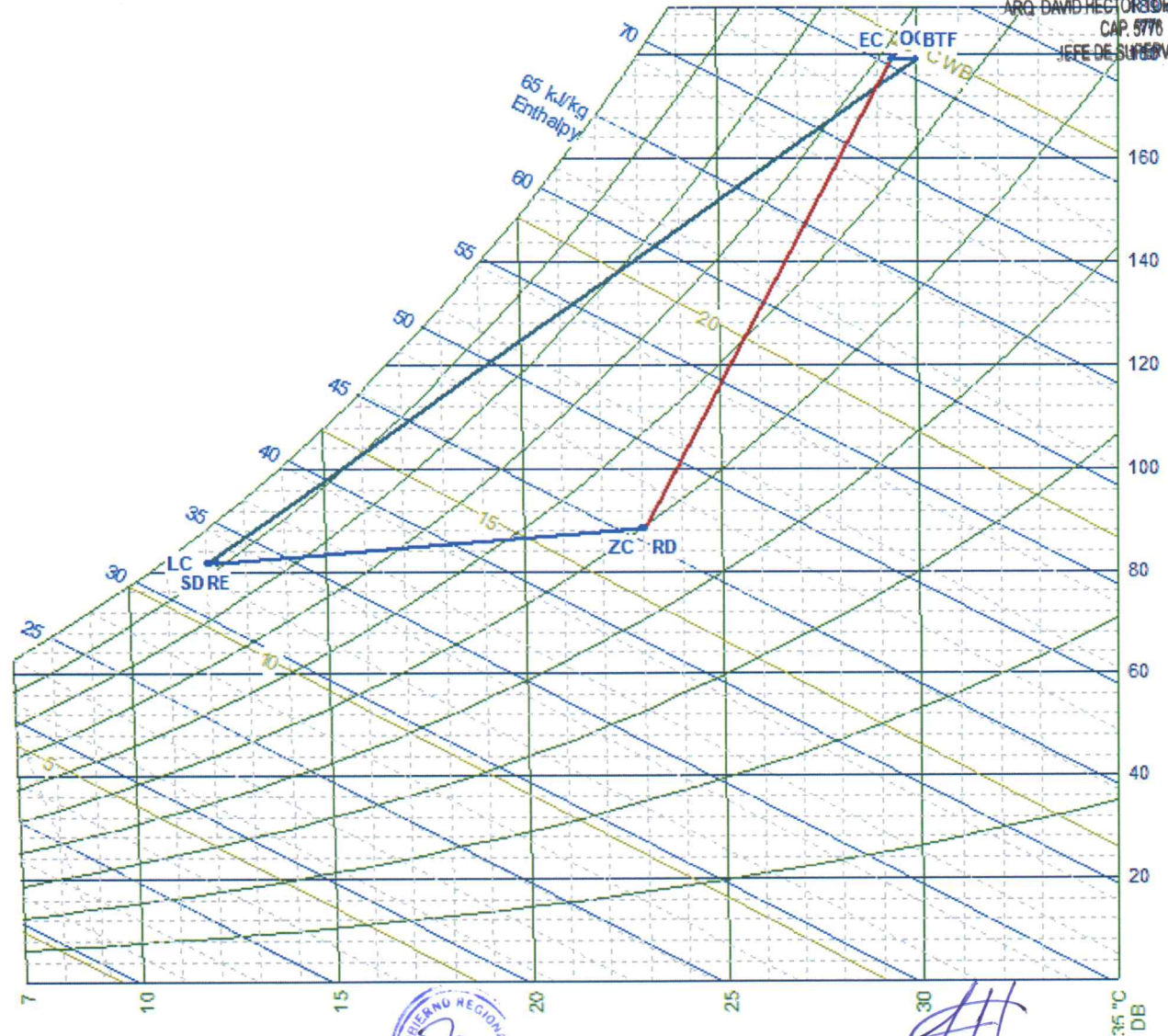
004872



Air System #3 (Uma-n1-laboratorio) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

ARG. DAVID HECTOR TORRES SUENDE
CAP. 5776
JEFE DE SUPERVISIÓN



MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 63138

Nestor Enrique Ruiz F.
Ingeniero Mecánico
Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMUN
D.F.I. N° 21546425

EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61118

18306

Sum

18306

18306

CONFORME

004871

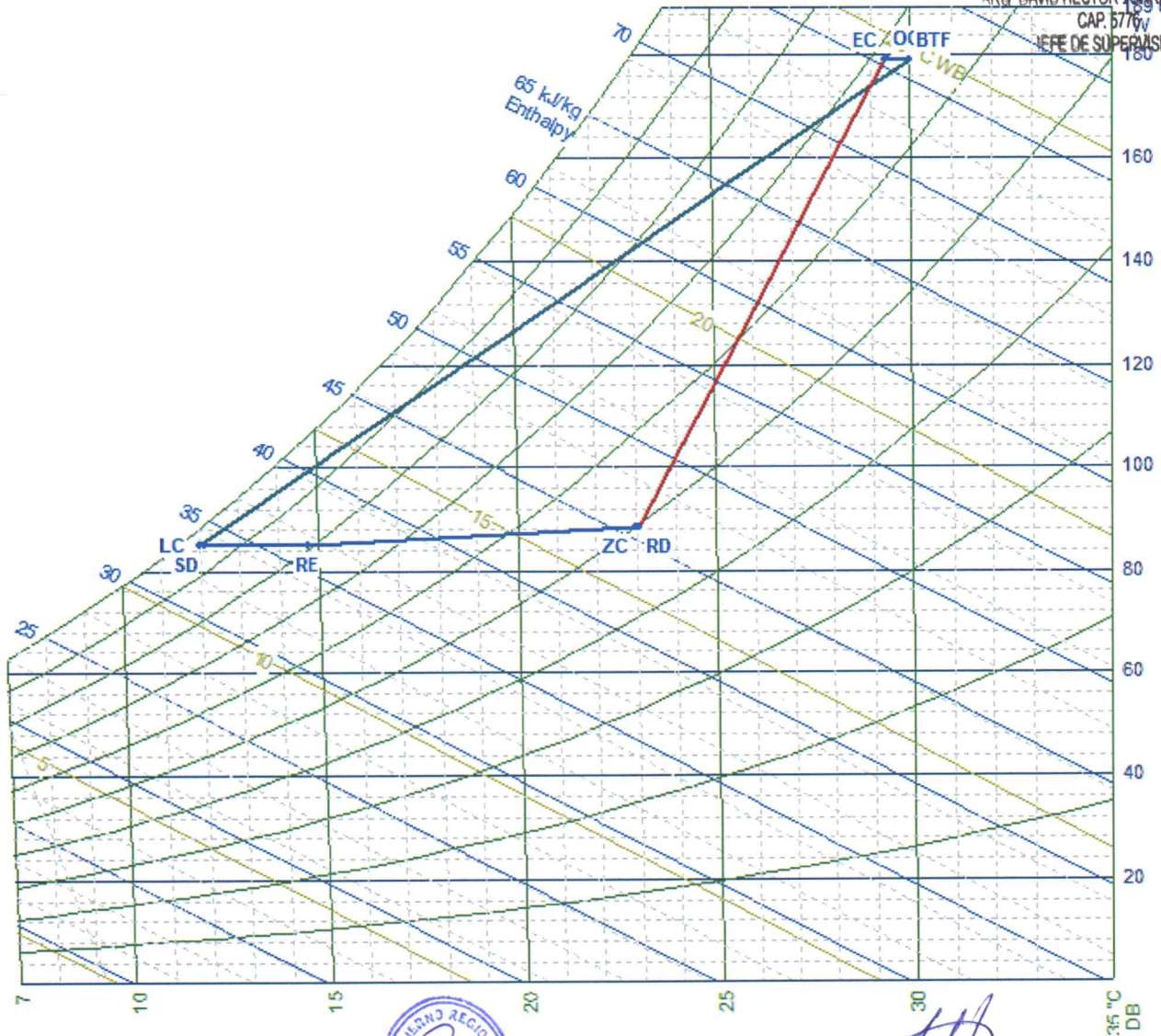


Air System #4 (Uma-n1-aisl.obse) Psychrometric Chart

- | | | | |
|-----|---|-----|---|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Sensible Gain |
| PRE | Pretreated Air Condition | | |

[Handwritten signature]

ING. DAVID HECTOR TORRES PUENTE
CAP. 5776
JEFE DE SUPERVISIÓN



[Handwritten signature]
Nestor Enrique Ruiz R. ;
Ingeniero Mecánico
Reg. CIP 29863

CONSORCIO CONSULTOR SAUL GARRIDO
[Handwritten signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI Nº 21546425

[Handwritten signature]
MANUEL DONATO GARCÍA JAVE
ING. MECÁNICO ELECTRICISTA
REG. CIP Nº 89128
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 61778

11/17/99

11/17/99

11/17/99

11/17/99

11/17/99

11/17/99

CONFORME

004870



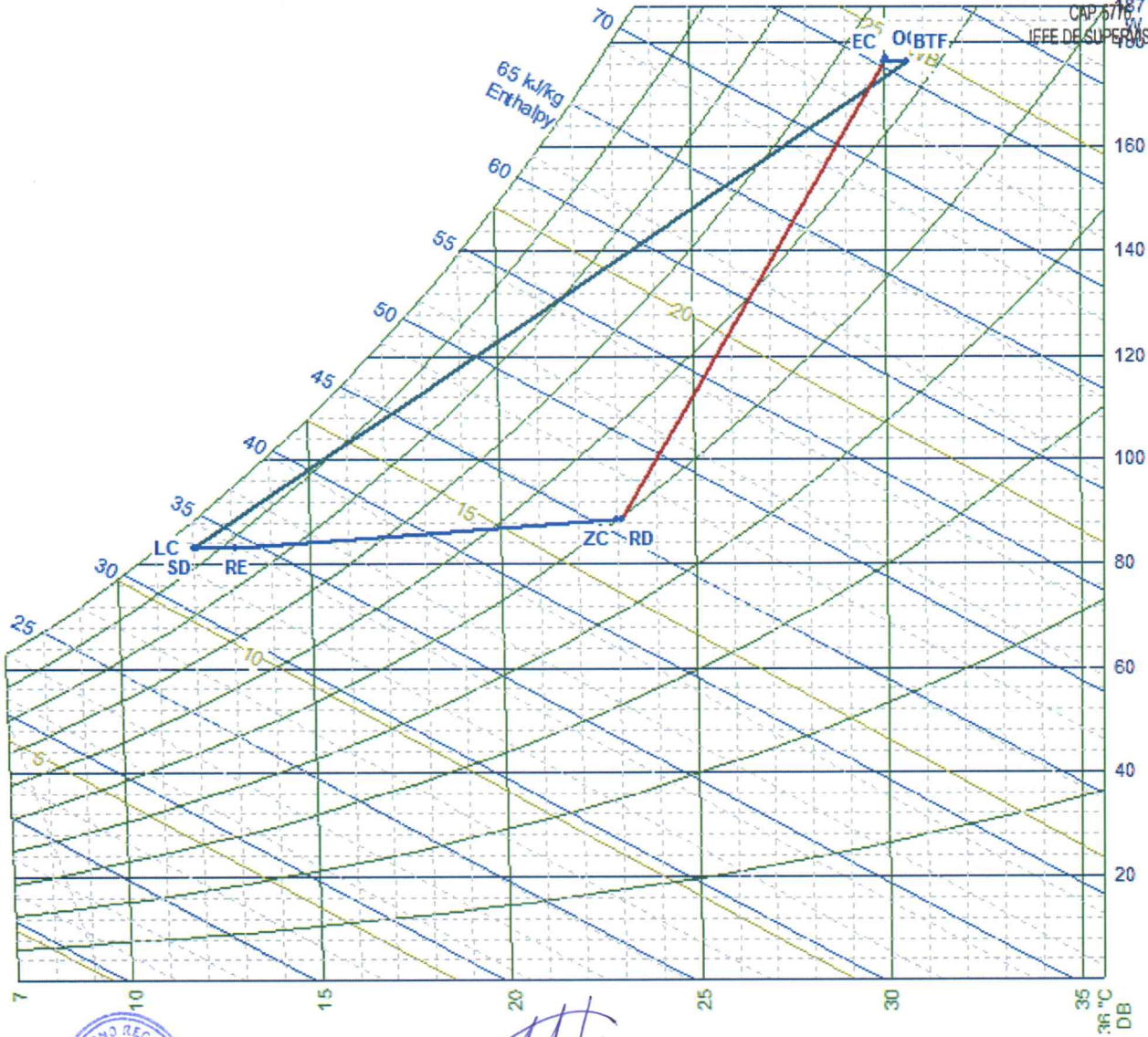
Air System #6 (Uma-n1-vih) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

Handwritten signature

ARQ. DAVID HECTOR TORRES PUENTE
CAP. 187 dg/kg
JEFE DE SUPERVISIÓN



Handwritten signature
Nestor Enrique Ruiz F.
Ingeniero Mecánico
Reg. CIP 29863

Handwritten signature
MANUEL DONATO GARCIA JAVE
ING. MECÁNICO-ELECTRICISTA
REG. CIP N° 99138

CONSORCIO CONSULTOR SAUL GARRIDO
Handwritten signature
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DRII N° 21546425

Handwritten signature
EDWARD GERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61778

032600

032600

032600
032600

032600
032600
032600
032600

CONFORME

004869

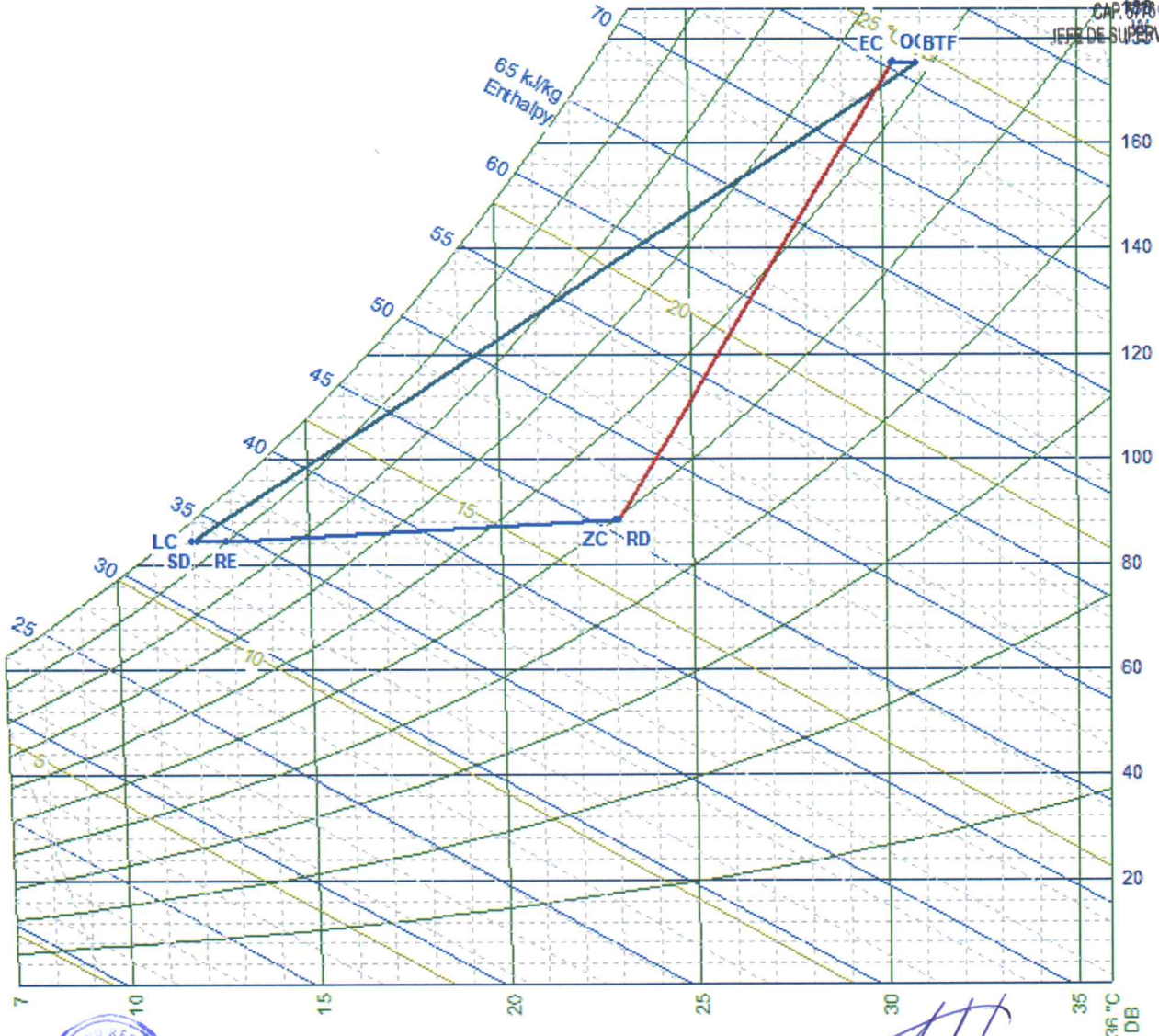


Air System #7 (Uma-n1-tbc) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

[Handwritten signature]

ARQ DAVID HECTOR TORRES PUENTE
CAP. 1778 dg/kg
JEFE DE SUPERVISION



[Signature]
Nestor Enrique Ruiz P.
Ingeniero Mecánico
Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
D.N.I. Nº 21546425



[Signature]
MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP Nº 63135
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 61779

Handwritten scribbles at the top left.

Handwritten scribbles at the top center.

Handwritten notes in blue ink, possibly including a signature or date.

Handwritten notes at the bottom left, including a list of items and a signature.

Handwritten notes at the bottom right, including a signature and some illegible text.

CONFORME

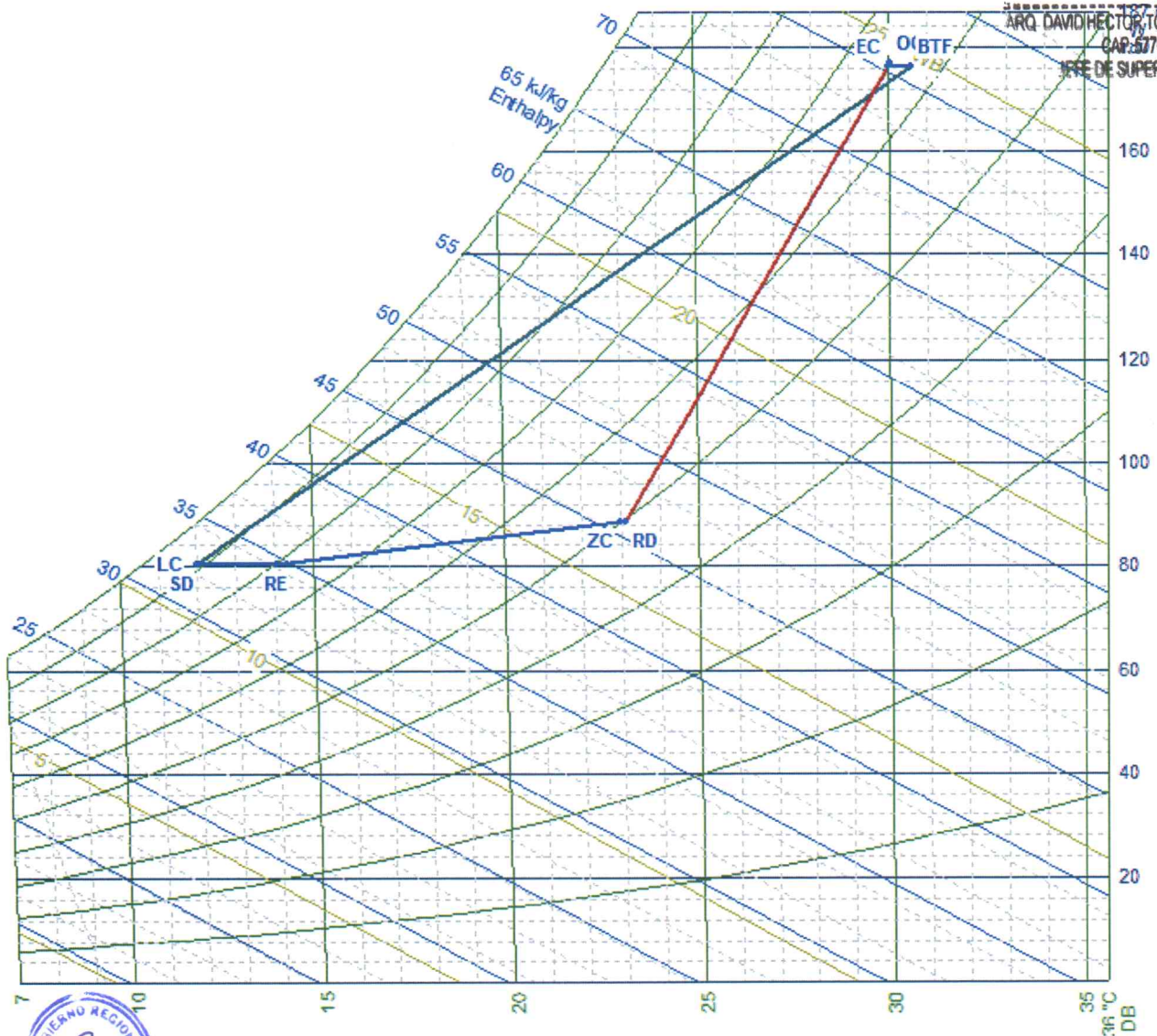
004868



Air System #8 (Uma-n2-sm) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

[Handwritten signature]



ARQ. DAVID HECTOR TORRES PUNTE
CAP. 5776
JEFE DE SUPERVISIÓN



[Signature]
Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866

MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 69138

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI N° 21546425

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61778

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

CONFORME

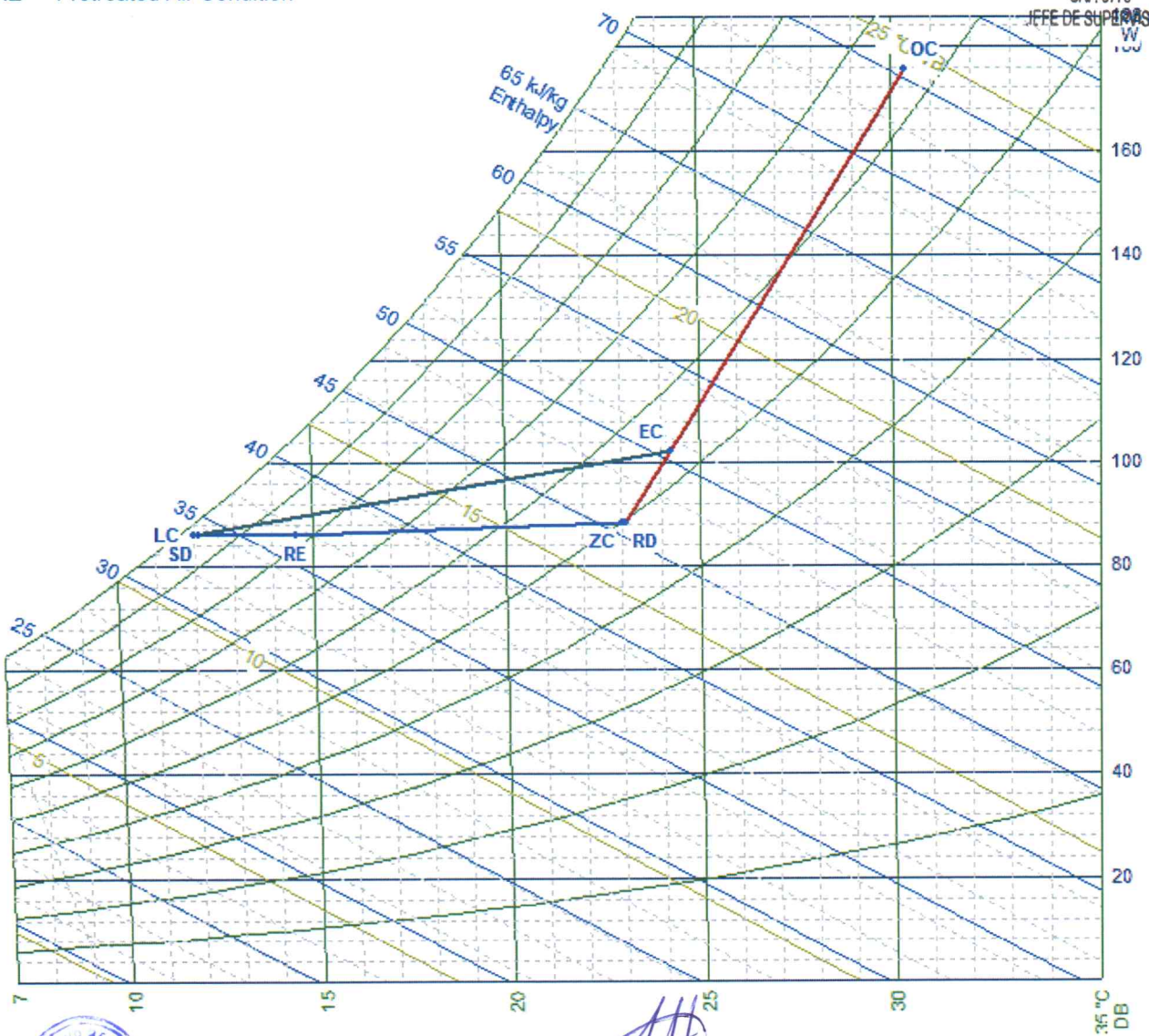
004867



Air System #9 (Uma-n2-dil) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

[Signature]
 JEFFREY TORRES PUEENTE
 CAP. 5776
 JEFE DE SUPERVISIÓN



[Signature]

Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI N° 21546425

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.E. N° 61778

989.00

7000
10000
15000
20000

10000
20000
30000
40000
50000

10000
20000
30000
40000
50000

CONFORME

004856

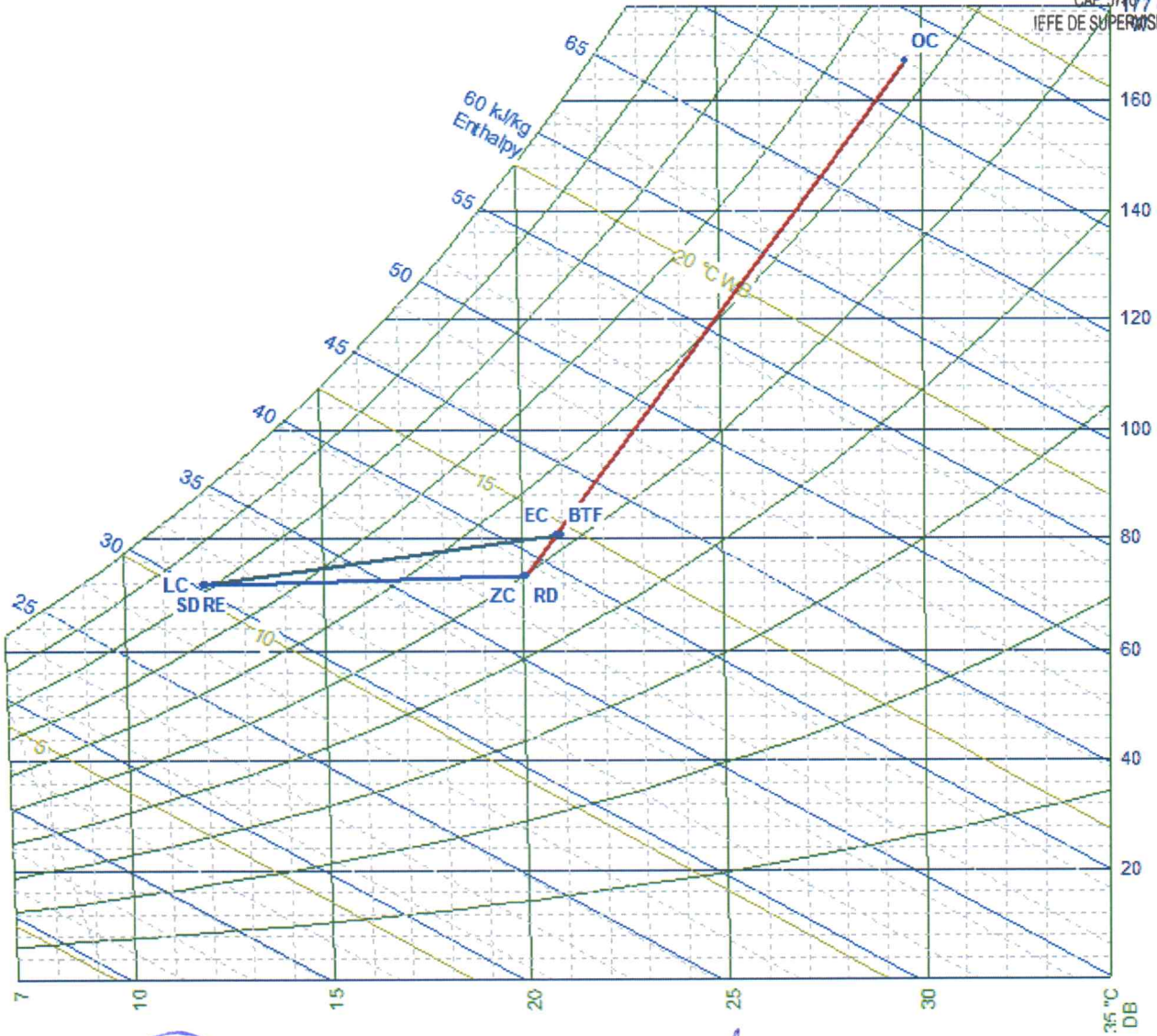


Air System #10 (Dx) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 57177 da/kg
 JEFE DE SUPERVISION



Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO

[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61778

435209

11/10/2001

Handwritten notes in blue ink, possibly including a signature and some illegible text.



Faint, illegible text located in the bottom right corner of the page.

CONFORME

004865

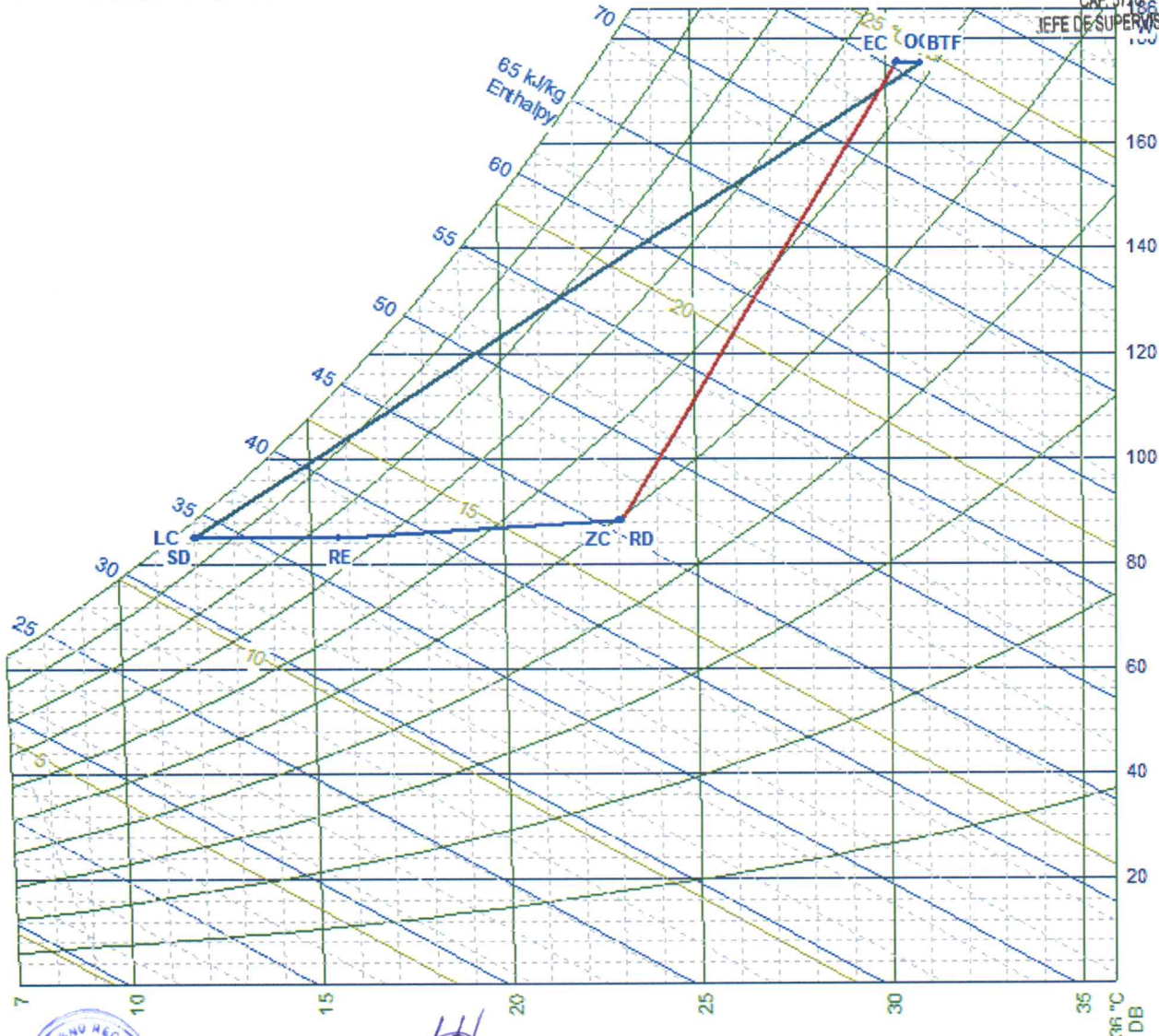


Air System #11 (Uma-n2-sp) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 5776
 JEFE DE SUPERVISION



[Signature]
Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

[Signature]
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 69138

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DRII N° 21546425

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

000000

000000

000000

000000

000000

000000

000000

CONFORME

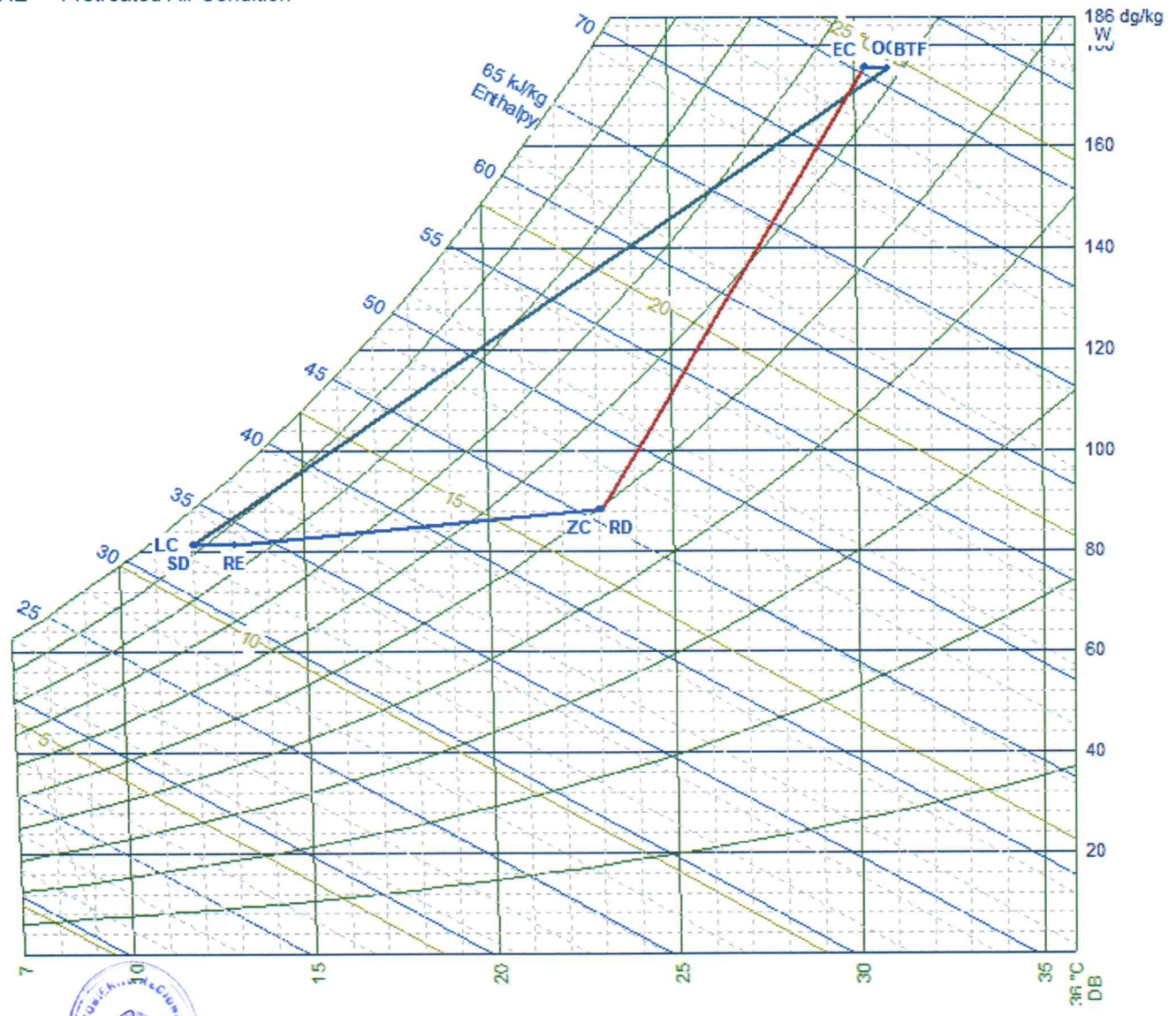
004864

[Handwritten signature]



Air System #12 (Uma-n2-so-gin) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |



Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI Nº 21546425

EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 61770

MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP Nº 69138

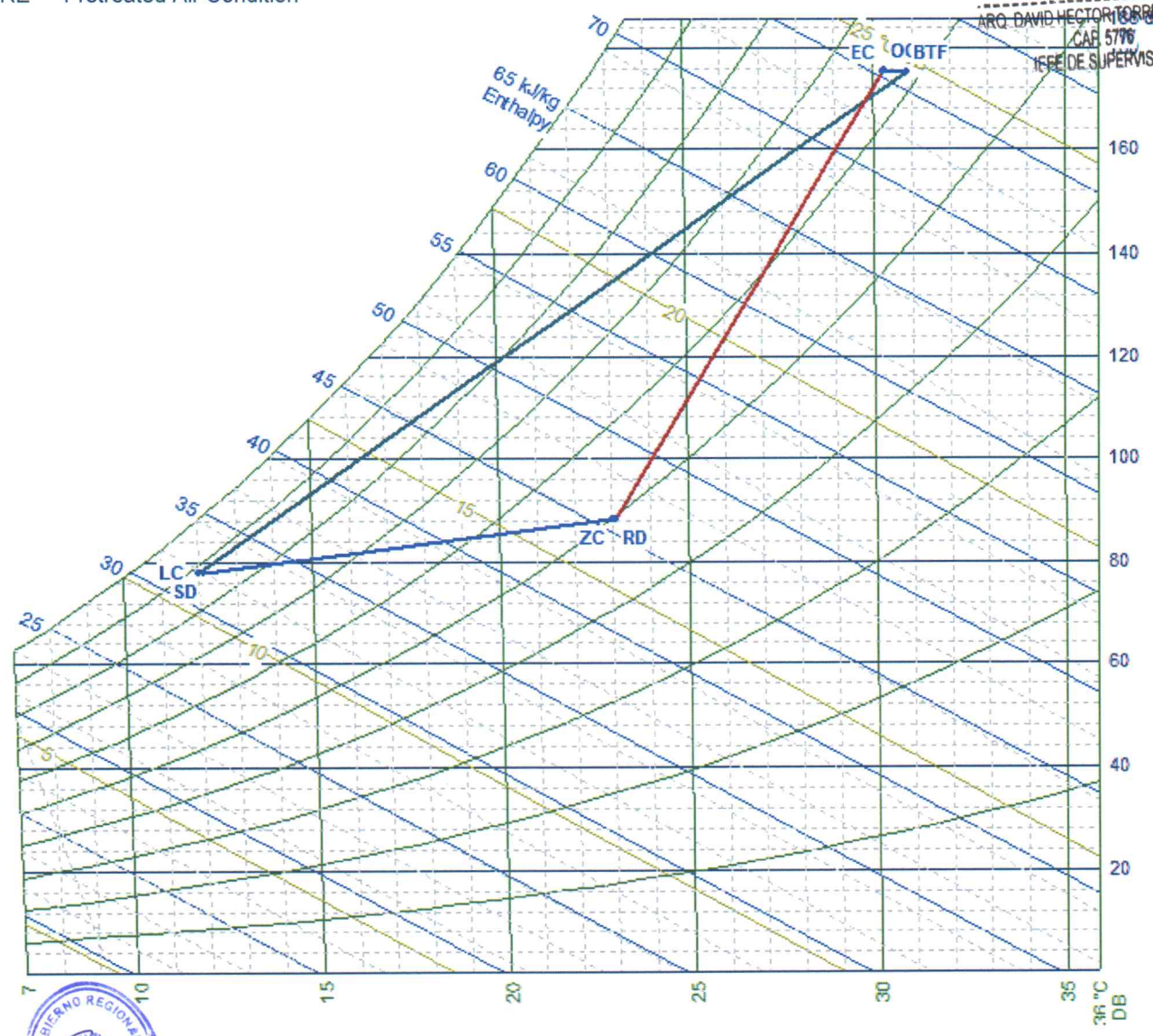


Air System #13 (Uma-n2-legrado) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

Handwritten signature

ING. DAVID HECTOR TORRES PUENTE
CAR 5796
JEFE DE SUPERVISIÓN



Handwritten signature
Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO

Handwritten signature
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425



Handwritten signature
 MANUEL DONATO GARCIA JAVE
 ING. MECÁNICO-ELECTRICISTA
 REG. CIP N° 69138

Handwritten signature
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

004862



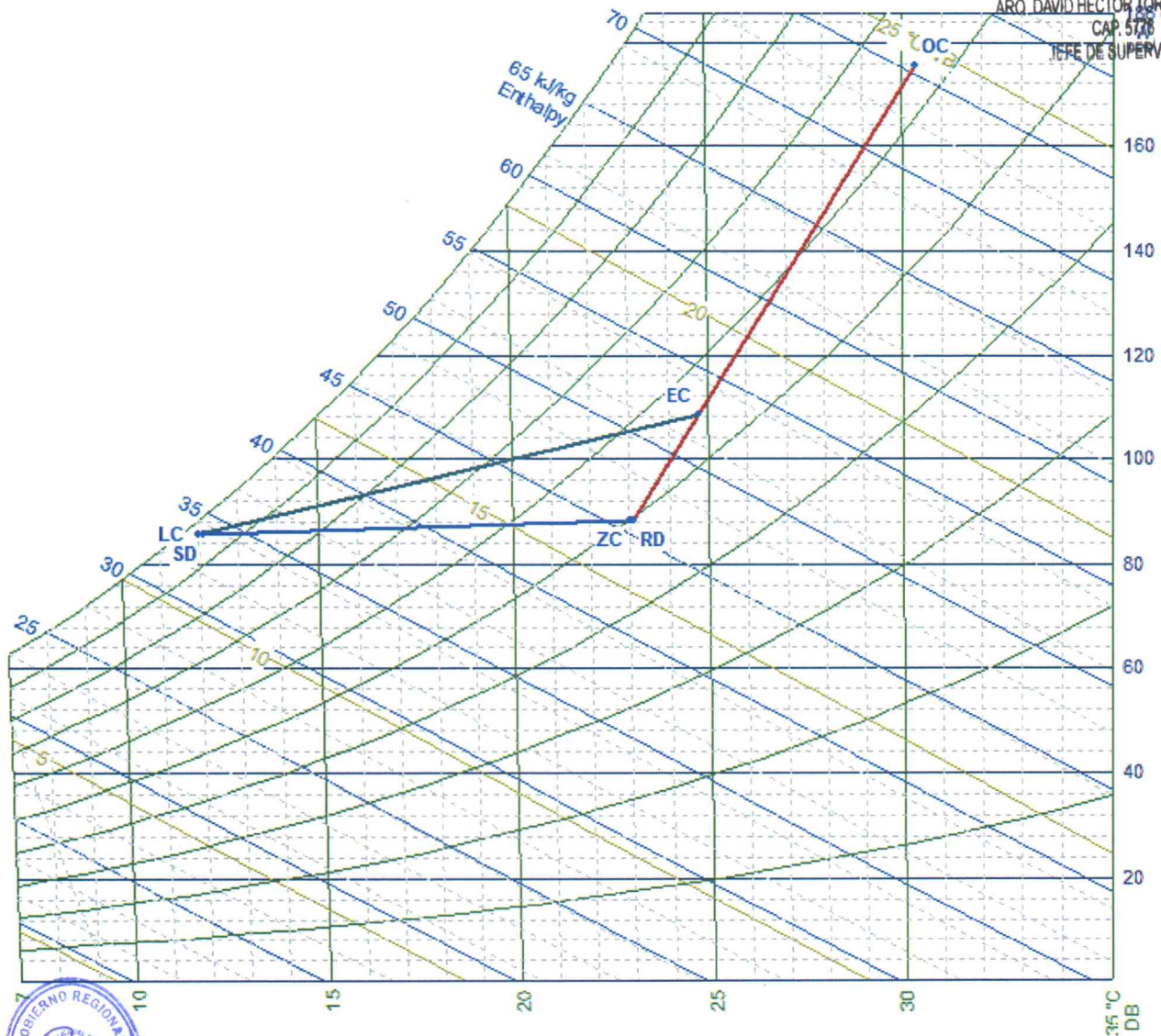
Air System #14 (Uma-n2-induc) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Handwritten signature]

ARQ. DAVID HECTOR TORRES PUENTE
CAP. 5740
JEFE DE SUPERVISIÓN



Nestor Enrique Ruiz R.
Ingeniero Mecánico
Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO

[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
D.P.I. N° 21546425

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61770



[Signature]
ING. DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 69138

1971



Handwritten notes in blue ink, including the word "Diagram" and some illegible scribbles.

Handwritten text in blue ink, possibly a title or a section header.



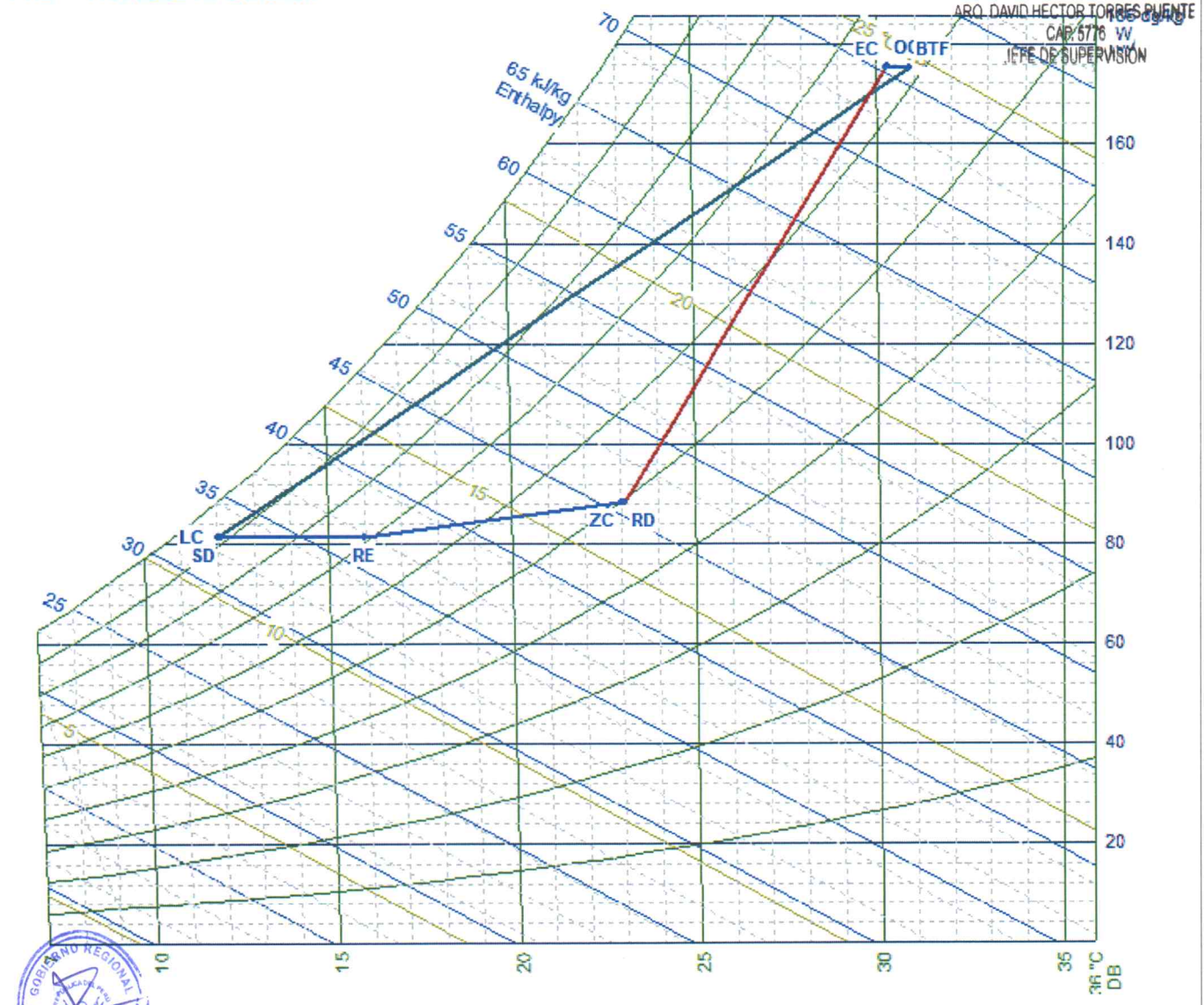
Handwritten text in blue ink, possibly a list or a set of instructions.

CONFORME

004891

Air System #15 (Uma-n2-so-cirugia) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |



Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29868

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DMI N° 21546425

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61778

[Signature]
MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 69100

DEPARTMENT OF
EDUCATION

1998

STATE OF
NEW YORK
OFFICE OF
EDUCATION

THE UNIVERSITY OF THE STATE OF NEW YORK
OFFICE OF THE STATE EDUCATION OFFICER
125 SOUTH SALMON STREET, ALBANY, NY 12242-5000
TEL: 518/474-3000 FAX: 518/474-3001
WWW.STATEEDU.NY.GOV

STATE OF NEW YORK
OFFICE OF THE STATE EDUCATION OFFICER
125 SOUTH SALMON STREET, ALBANY, NY 12242-5000
TEL: 518/474-3000 FAX: 518/474-3001
WWW.STATEEDU.NY.GOV

CONFORME

004850

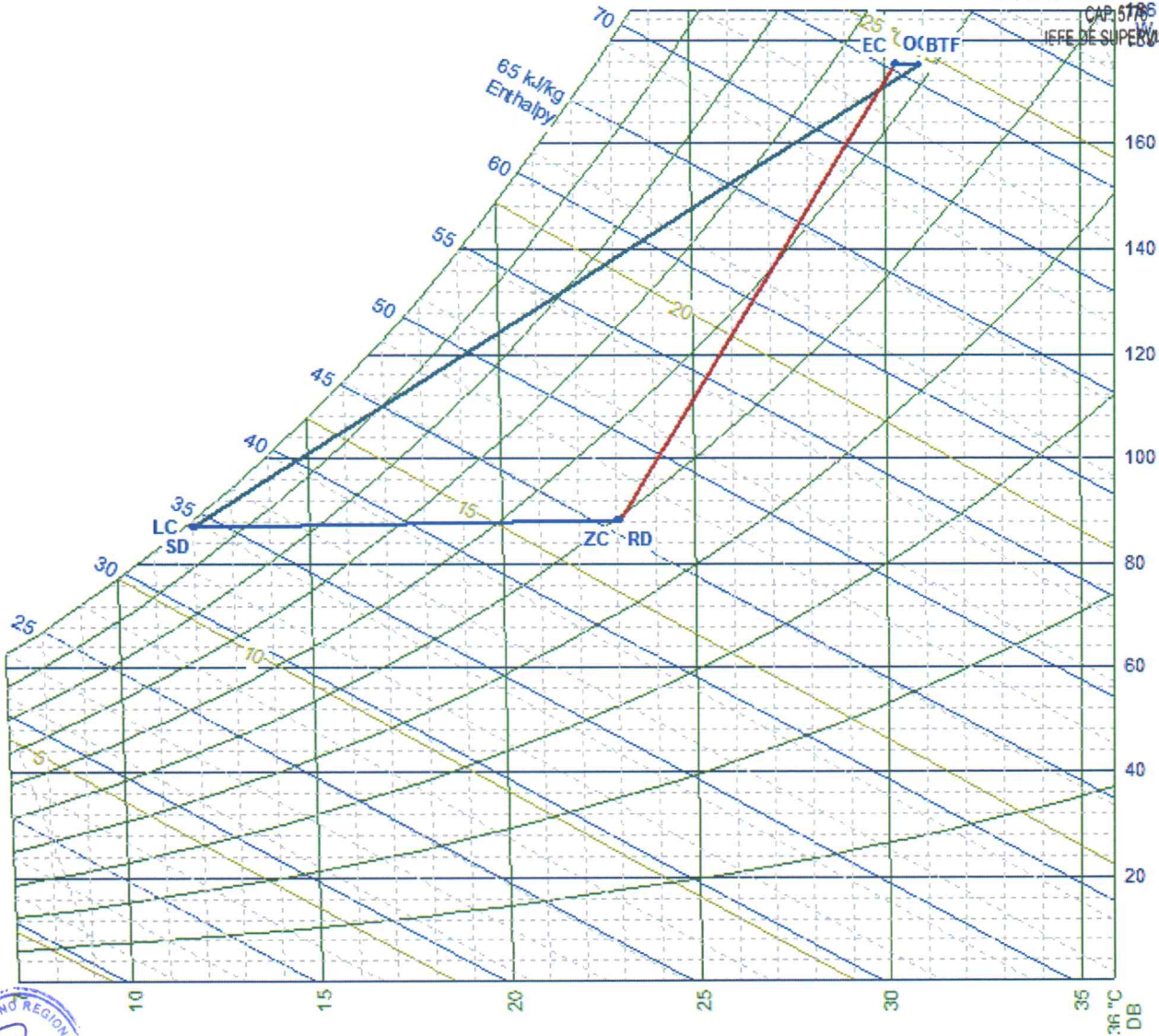


Air System #16 (Uma-n2-so-est) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ DAVID HECTOR TORRES PUEENTE
 CAP 5786 dg/kg
 JEFE DE SUPERVISIÓN



[Signature]
Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Signature]
EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61778

[Signature]
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP Nº 69100

07/20/00

07/20/00

Handwritten notes and scribbles in the upper left quadrant.

Handwritten scribble, possibly initials.

Faint handwritten text at the bottom center.

Handwritten scribbles and lines at the bottom center.

Handwritten scribbles and lines at the bottom center.

Faint handwritten text at the bottom right.



CONFORME

007859

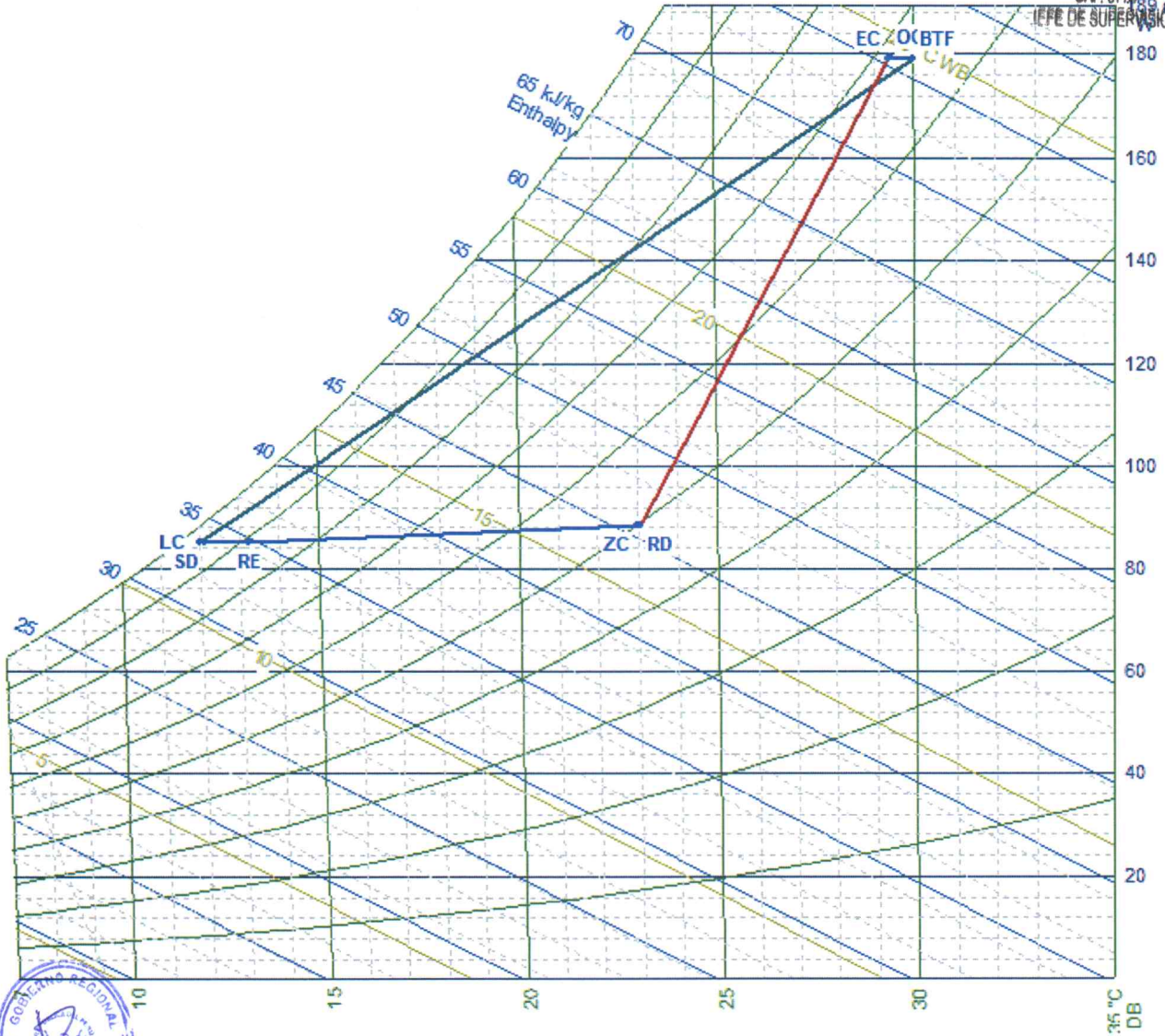


Air System #17 (Uma-n2-lab. Inmunoheemt.) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 6778
 JEFE DE SUPERVISION



[Signature]
Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 D.H.I. N° 21546425

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 6177R

[Signature]
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP N° 69138

370307

370307

370307

370307

370307

CONFORME

004858

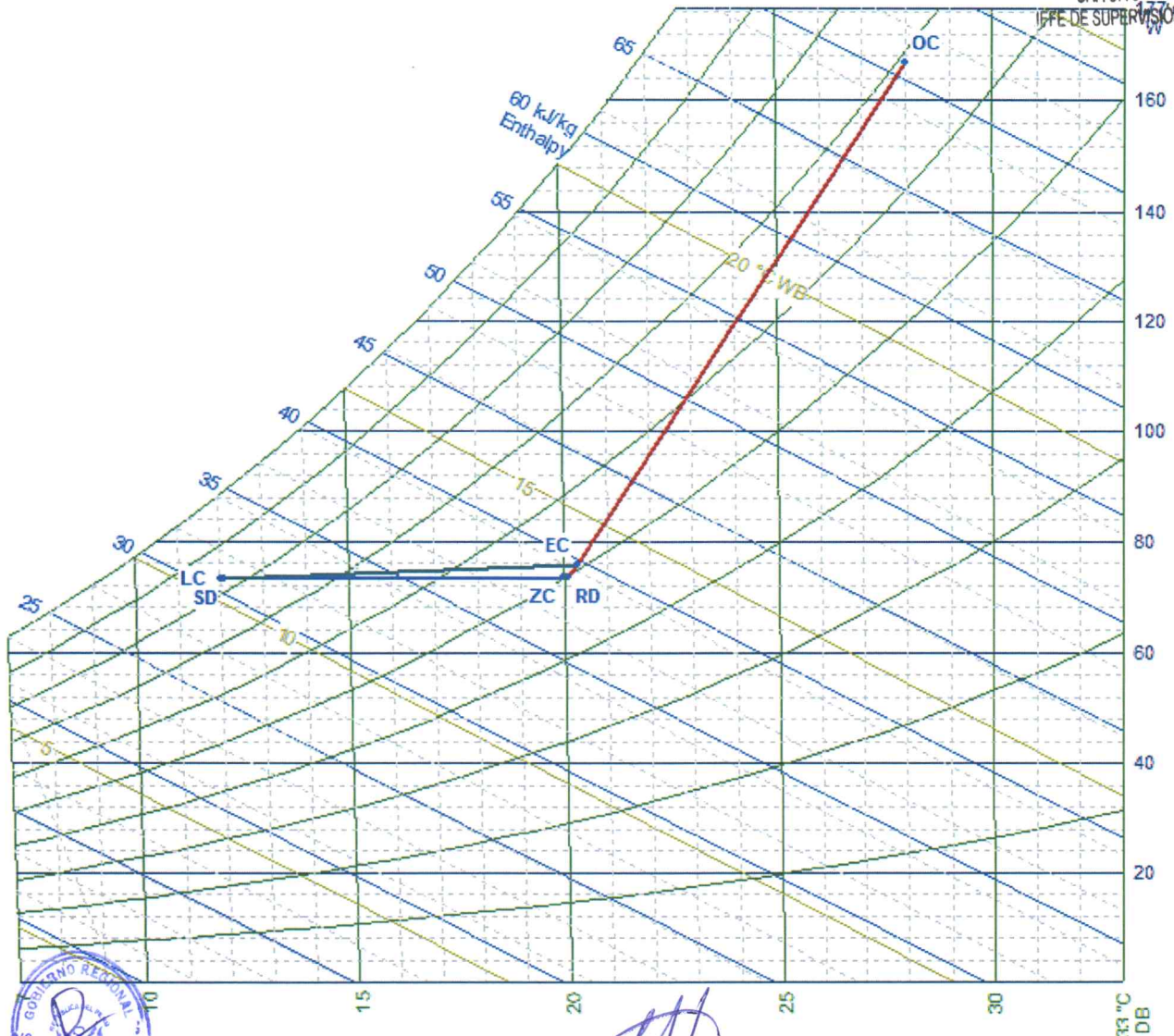


Air System #18 (N2 Unidad Precisión) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

ARQ. DAVID LATORRES PUENTE
CAP. 5776
JEFE DE SUPERVISION



Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866

MANUEL DONATO GARCIA JAVE
ING. MECANICO-ELECTRICISTA
REG. CIP N° 03160
CONSORCIO CONSULTOR SAUL GARRIDO
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMUN
DMI N° 21546425

EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61778

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

CONFORME

004857

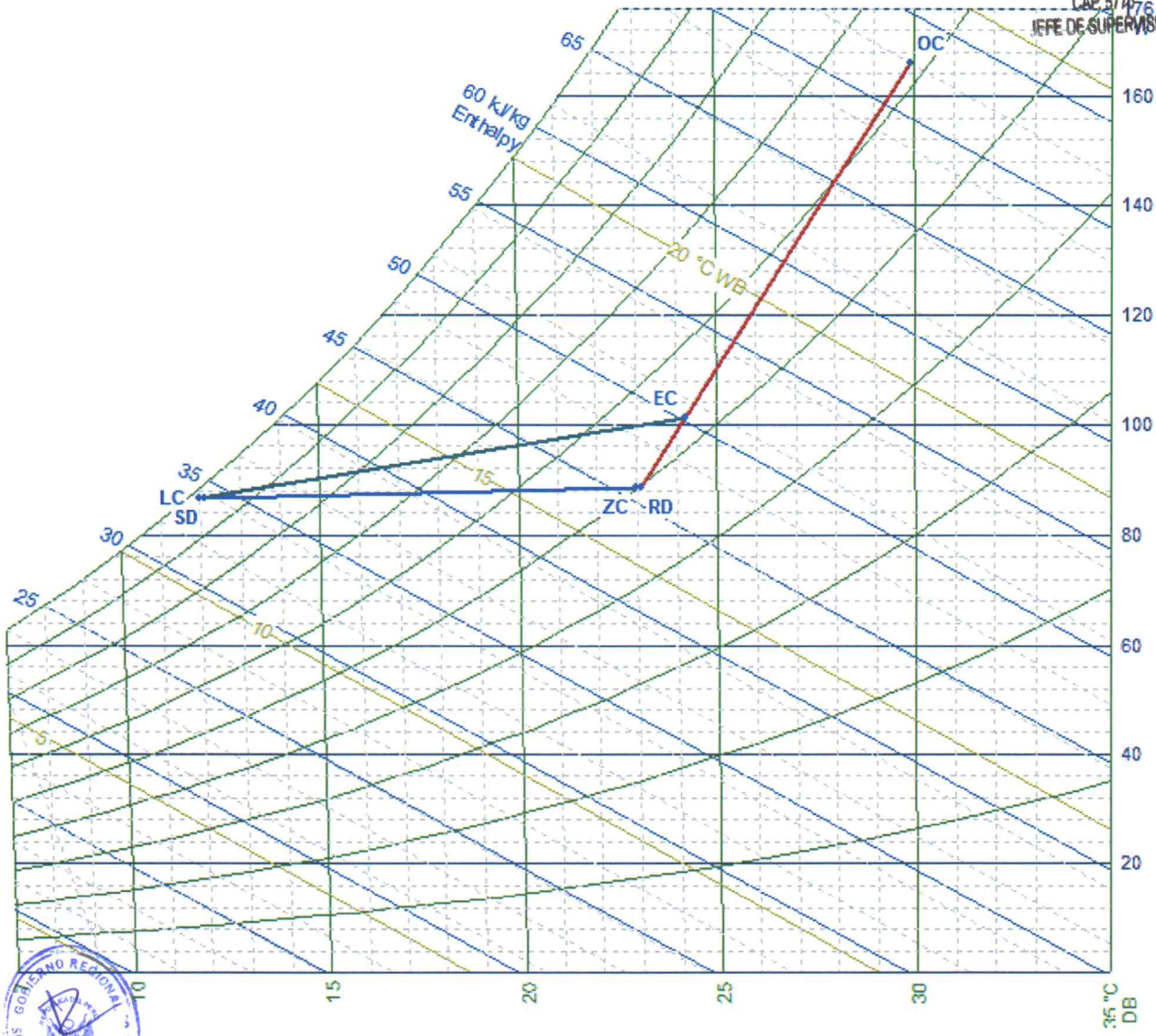


Air System #19 (Uma-n3-hosp) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

David
 ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 5778
 JEFE DE SUPERVISION



Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
Maria Luisa Carballo Muñoz
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

Manuel Donato Garcia Jave
 MANUEL DONATO GARCIA JAVE
 ING. MECANICO-ELECTRICISTA
 REG. CIP. N° 03199

Edward Ceron Torres
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

Sub 100

11/11/11

555
11/11/11
11/11/11
11/11/11

11/11/11
11/11/11
11/11/11

11/11/11
11/11/11
11/11/11

11/11/11

11/11/11
11/11/11

CONFORME

004856

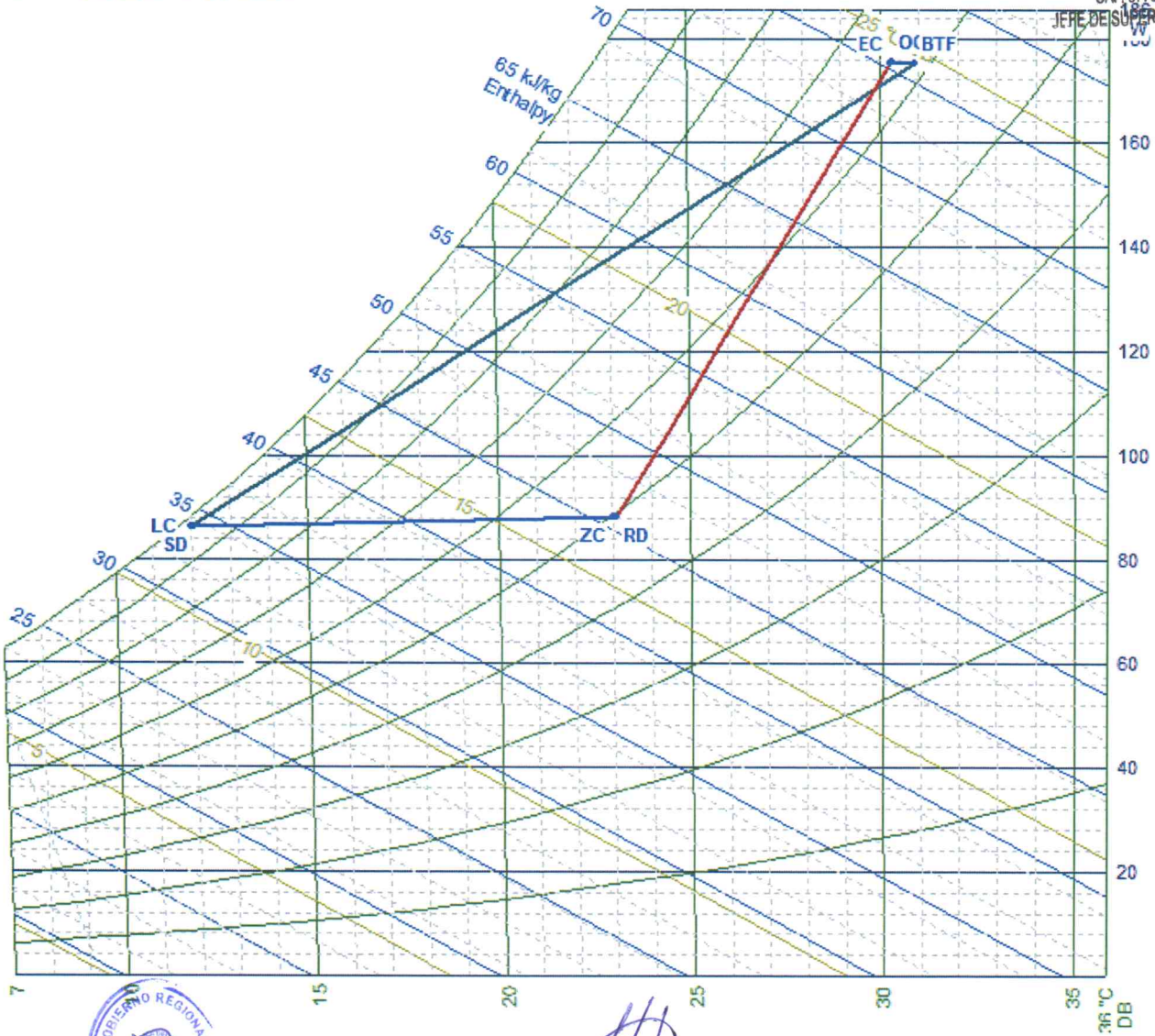


Air System #20 (Uma-n3-aisl.pediat) Psychrometric Chart

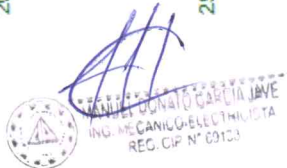
- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ DAVID HECTOR TORRES PUENTE
 CAP. 6776
 JEFE DE SUPERVISOR



[Signature]
 Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIA LUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI Nº 21546425

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. Nº 61770

10/10/18

10/10/18

10/10/18

10/10/18

10/10/18

10/10/18

CONFORME

004855

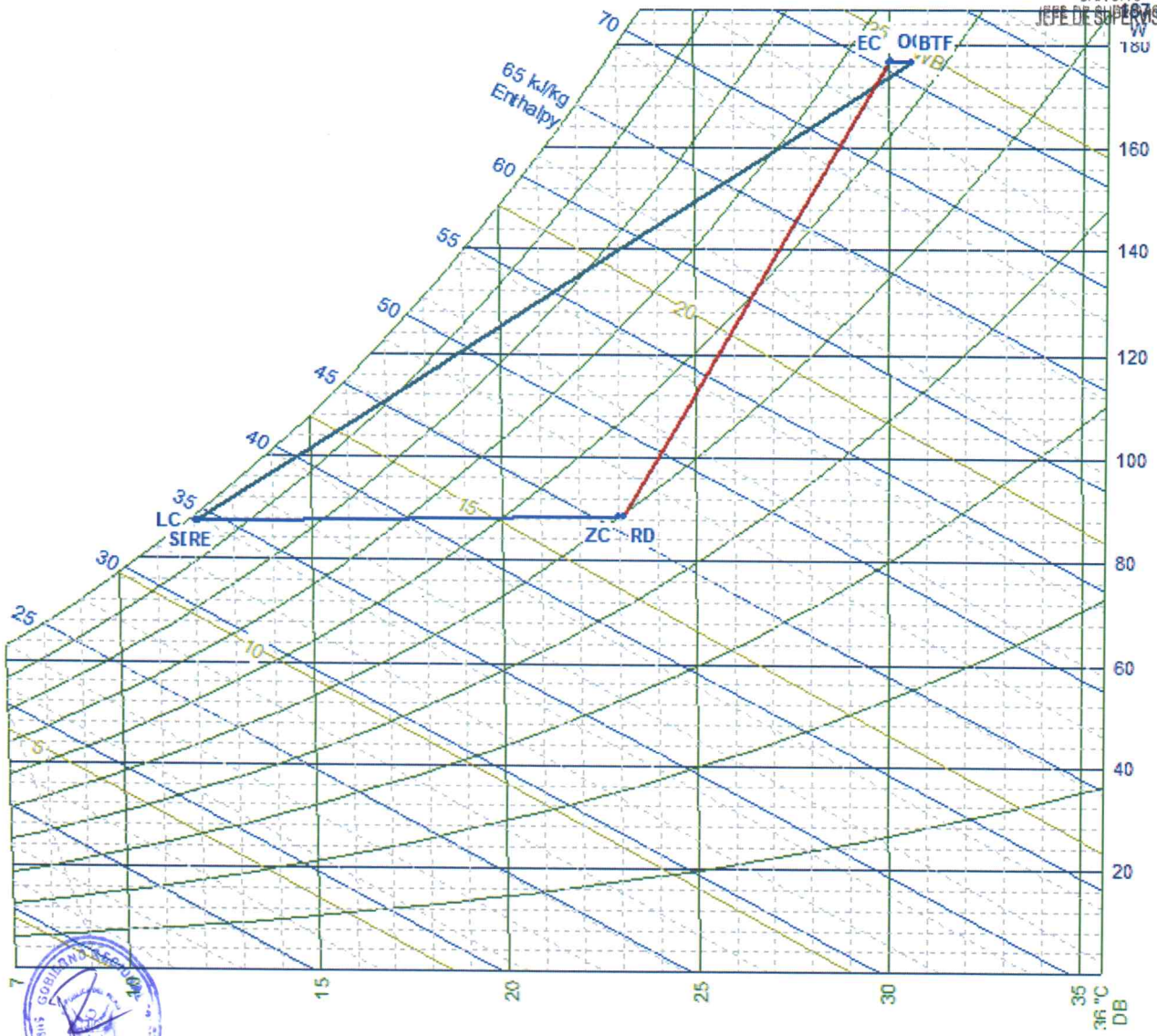


Air System #21 (Uma-n3-aisl.adulto) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]
 ARQ. DAVID HECTOR TORRES PUENTE
 CAP. 5778
 JEFE DE SUPERVISION



[Signature]
 Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866

CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
 C.P.C. MARIALUISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

[Signature]
 MANUEL DONATO GARCIA JAVE
 ING. MECÁNICO-ELECTRICISTA
 REG. CIP N° 9313

[Signature]
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

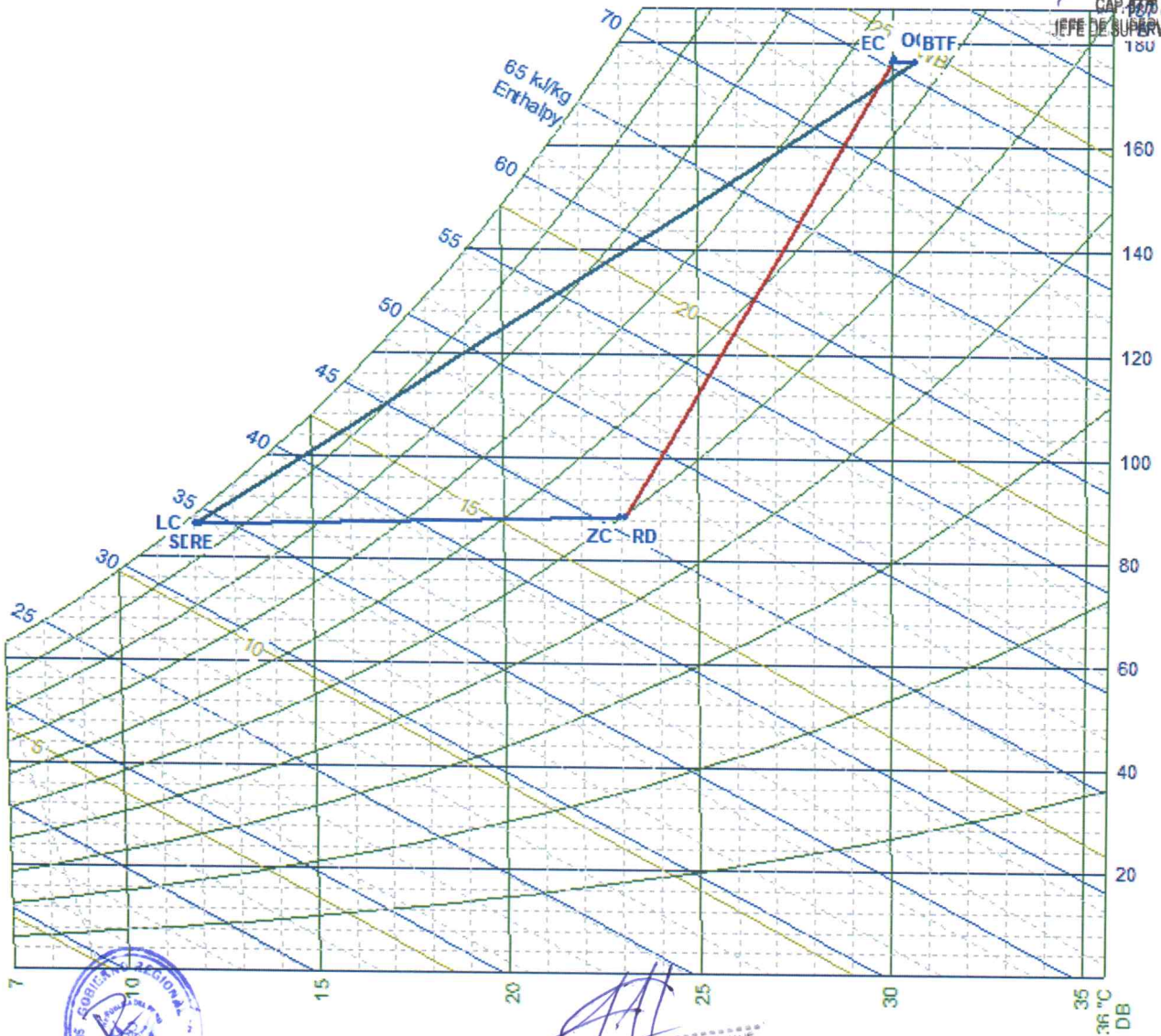
004854



Air System #22 (Uma-n3-aisl.obst) Psychrometric Chart

ZC	Zone Condition	OC	Outdoor Condition
LC	Leaving Coil Condition	EC	Entering Coil Condition
SD	Supply Duct Temperature Rise	RD	Return Duct Temperature Rise
DTF	Draw Through Fan Sensible Gain	BTF	Blow Through Fan Sensible Gain
RE	Reserve or Reheat Sensible Gain	PL	Return Air Plenum Sensible Gain
SM	Supply Side Miscellaneous Sensible Gain	RM	Return Side Miscellaneous Gain
PRE	Pre-treated Air Condition		

ARQ. DAVID TORRES PUENTE
CAP. 1878 dg/kg
JEFE DE SUPERVISION



Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI N° 21546425

EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. N° 61778

1000

1000

1000
1000
1000



1000
1000
1000

1000
1000
1000

1000
1000
1000

CONFORME

004853

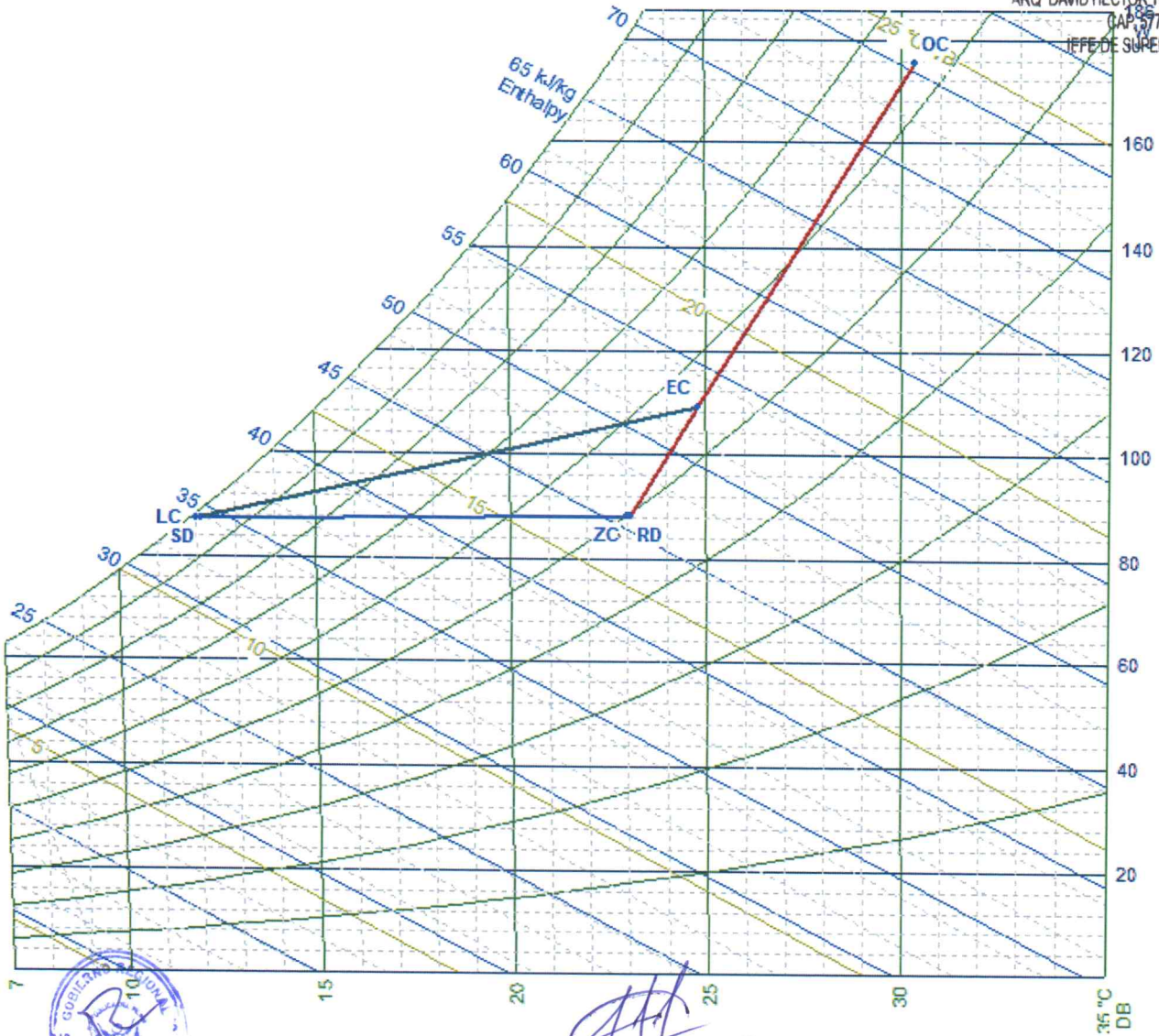


Air System #24 (Uma-n2-recup) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

David
 ARQ DAVID HECTOR TORRES PUENTE
 CAP. 3776
 JEFE DE SUPERVISIÓN



Nestor Enrique Ruiz Ruiz
 Ingeniero Mecánico
 Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO

C.P.C. MARIA LOISA CARBAJO MUÑOZ
 REPRESENTANTE COMÚN
 DNI N° 21546425

Edward
 EDWARD CERON TORRES
 JEFE DE PROYECTO
 C.I.P. N° 61778

CONFORME

004852



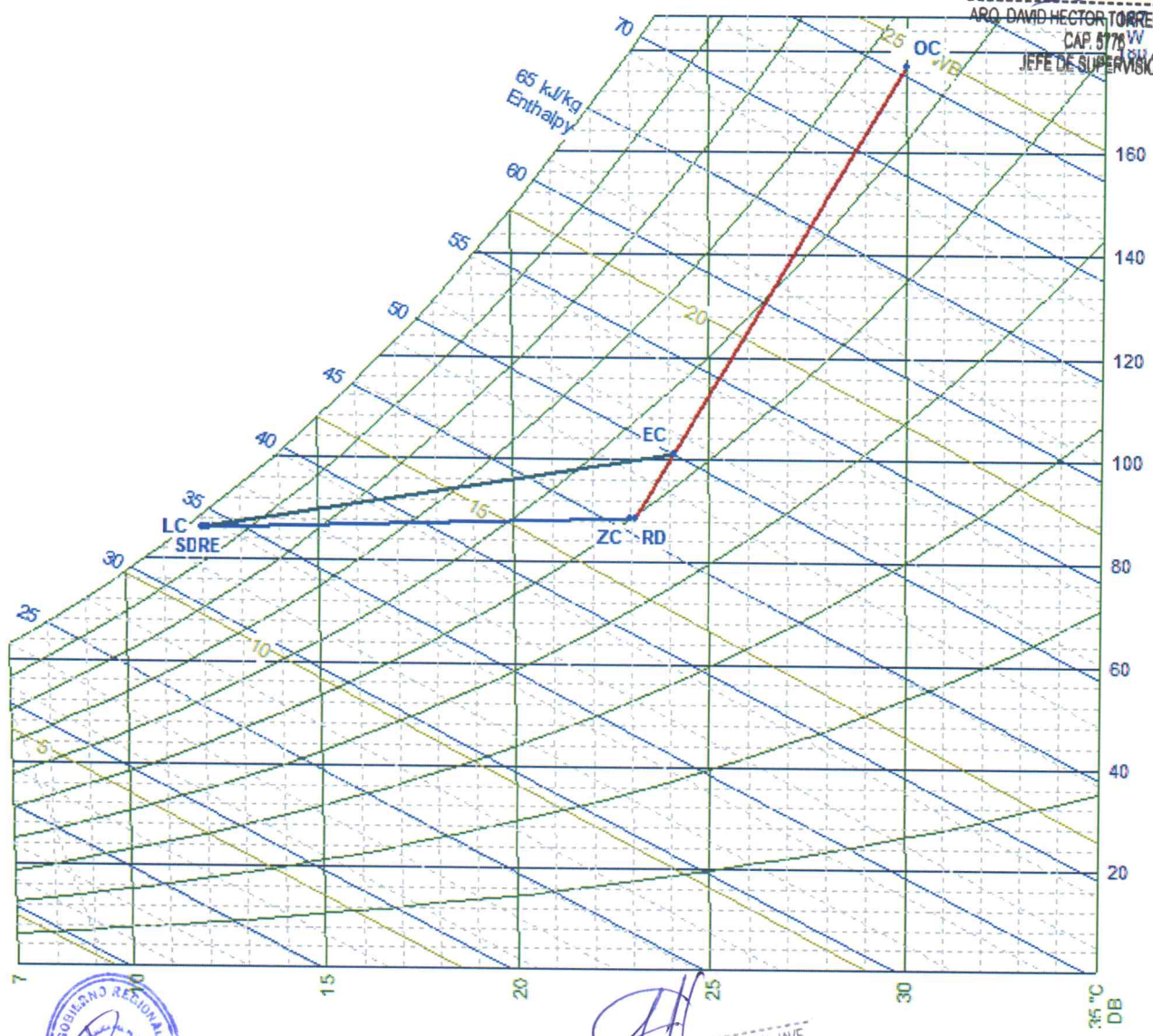
Air System #25 (Uma-n3-hosp.adult) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

[Signature]

ARO. DAVID HECTOR TORRES BUENTE
CAP. 6176 VV
JEFE DE SUPERVISION



[Signature]
Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866



CONSORCIO CONSULTOR SAUL GARRIDO
[Signature]
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI Nº 22544429

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.I.P. Nº 61760

100-100

100-100

100-100
100-100
100-100

100-100

100-100

100-100

100-100

100-100

CONFORME

004851

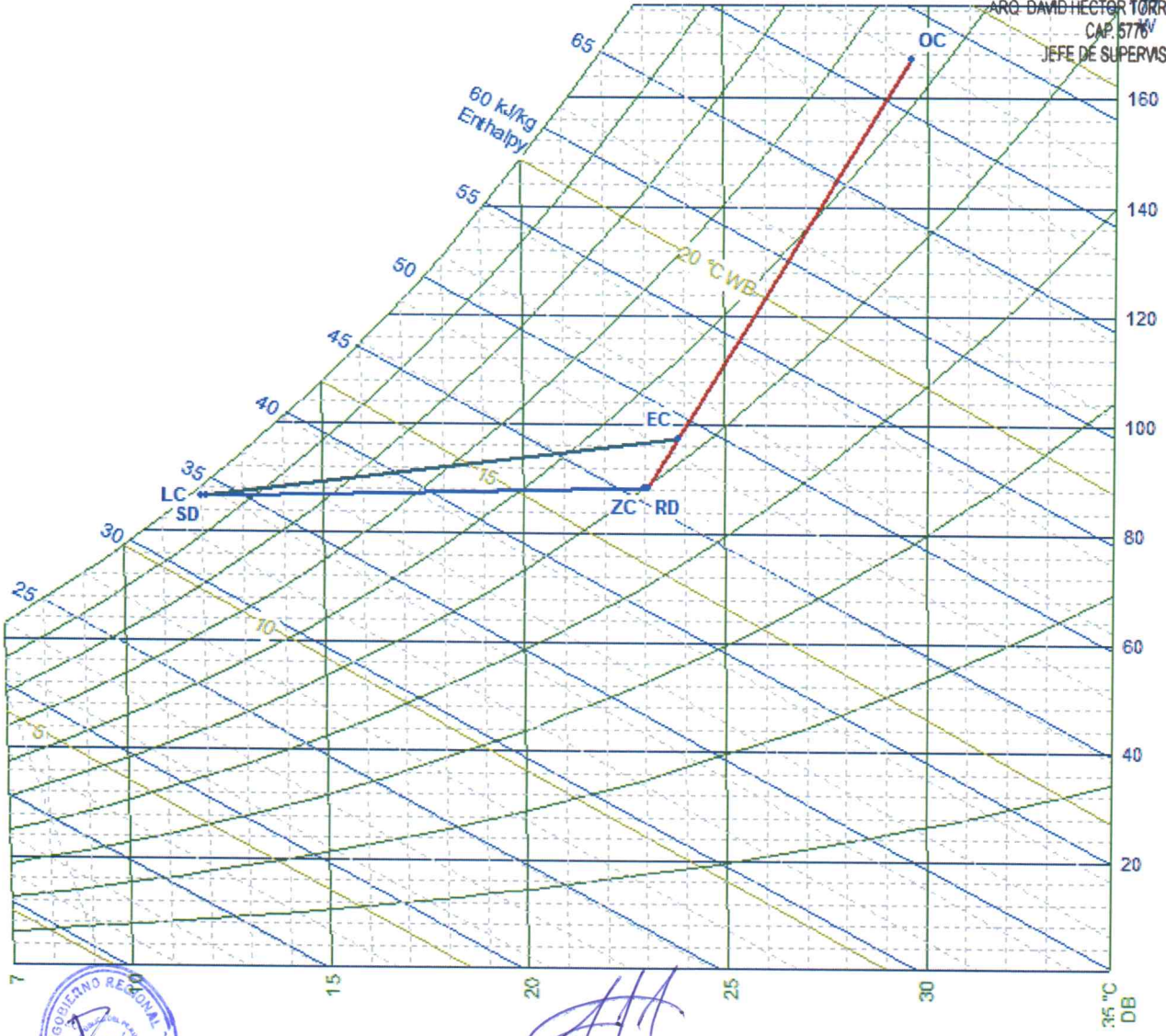


Air System #26 (Uma-n3-hosp.obst) Psychrometric Chart

- | | | | |
|-----|---|-----|---------------------------------|
| ZC | Zone Condition | OC | Outdoor Condition |
| LC | Leaving Coil Condition | EC | Entering Coil Condition |
| SD | Supply Duct Temperature Rise | RD | Return Duct Temperature Rise |
| DTF | Draw Through Fan Sensible Gain | BTF | Blow Through Fan Sensible Gain |
| RE | Reserve or Reheat Sensible Gain | PL | Return Air Plenum Sensible Gain |
| SM | Supply Side Miscellaneous Sensible Gain | RM | Return Side Miscellaneous Gain |
| PRE | Pretreated Air Condition | | |

[Handwritten signature]

ARG. DAVID HECTOR TORRES MUÑOZ
CAP. 5776
JEFE DE SUPERVISIÓN



[Signature]
Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866



[Signature]
CONSORCIO CONSULTOR SAUL GARRIDO
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
DNI/Nº 21546425

[Signature]
EDWARD CERON TORRES
JEFE DE PROYECTO
C.P. Nº 61770

004850

CONFORME

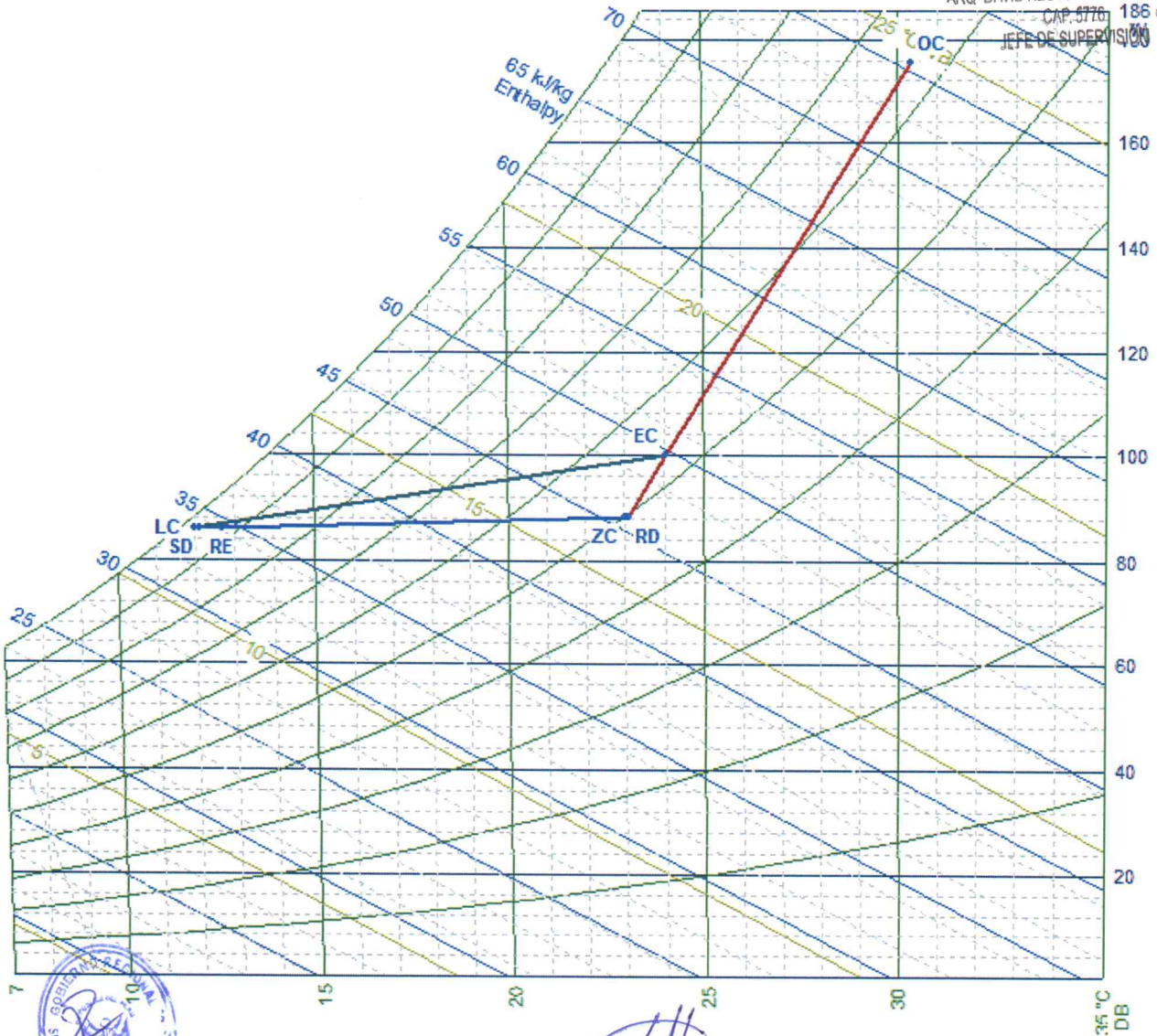


Air System #27 (Uma-n3-hosp.ped) Psychrometric Chart

- ZC Zone Condition
- LC Leaving Coil Condition
- SD Supply Duct Temperature Rise
- DTF Draw Through Fan Sensible Gain
- RE Reserve or Reheat Sensible Gain
- SM Supply Side Miscellaneous Sensible Gain
- PRE Pretreated Air Condition

- OC Outdoor Condition
- EC Entering Coil Condition
- RD Return Duct Temperature Rise
- BTF Blow Through Fan Sensible Gain
- PL Return Air Plenum Sensible Gain
- RM Return Side Miscellaneous Gain

ARQ. DAVID HECTOR TORRES PUENTE
CAP. 8776 186 dg/kg
JEFE DE SUPERVISION



Nestor Enrique Ruiz Ruiz
Ingeniero Mecánico
Reg. CIP 29866

Manuel Donato Garcia Jave
ING. MECANICO-ELECTRICISTA
REG. CIP N° 89138

CONSORCIO CONSULTOR SAUL GARRIDO
C.P.C. MARIA LUISA CARBAJO MUÑOZ
REPRESENTANTE COMÚN
D.F.I N° 21546425

Edward Cerón Torres
EDWARD CERÓN TORRES
JEFE DE PROYECTO
C.I.P. N° 61778