FLM 005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TELEVISA CABLEVISION MEXICO
CUSTOMER:

NUMBER PTM-60448-49-2

PEDIDO CLIENTE P.O.:
PEDIDO INTERNO / I.O. 13129

FECHA / DATE ENERO 21, 2005

PARTIDA (S) / ITEMS 55319-30 / 56621-20 / 60679-20 / 48996-10 / B0526-50

DIAMETRO / DIAMETER: 10 3/4"

ESPESOR DE PARED / WALL THICKNESS 0.365"

GRADO / GRADE: ASTM A53-B

PRESION HIDROSTATICA / HIDROSTATIC TEST: 101 Kg/cm² 1430 PSI

PRUEBAS DE TENSION / TENSILE TEST						ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSES PERCENT WEIGHT														
NUM.PROBETA / DESCRIPTION	COLADA / HEAT	LIMITE ELASTICO / YIELD STRENGTH (P.S.I.)	ULTIMA TENSION / TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
22-15 Tc	142646	66 400	72 946	37	0.91	0.067	0.72	0.012	0.004	0.032	0.003	0.003	0.189	0.281	0.038	0.0020	0.018	0.032	0.002	0.0070
Ts			77 842																	
26-11 Tc	142650	59 487	67 041	36	0.89	0.067	0.72	0.013	0.004	0.034	0.002	0.002	0.182	0.302	0.036	0.0028	0.017	0.027	0.003	0.0077
Ts			72 543																	
13-18 Tc	143254	66 414	74 227	35	0.89	0.164	1.05	0.014	0.004	0.011	0.004	0.002	0.285	0.044	0.027	0.0015	0.012	0.027	0.003	0.0061
Ts			82 645																	
31-15 Tc	145811	65 794	77 511	33	0.85	0.171	1.06	0.017	0.007	0.010	0.003	0.003	0.260	0.030	0.037	0.0024	0.020	0.030	0.007	0.0060
Ts			82 886																	
59-13 Tc	145816	67 625	80 594	34	0.84	0.173	1.06	0.016	0.005	0.010	0.002	0.003	0.280	0.020	0.030	0.0025	0.020	0.030	0.006	0.0100
Ts			88 465																	
65-17 Tc	236047	61 814	75 336	35	0.82	0.182	1.07	0.019	0.007	0.009	0.003	0.004	0.210	0.032	0.025	0.0028	0.022	0.017	0.009	0.0052
Ts			81 080																	
1-12 Tc	242829	63 889	69 878	40	0.91	0.061	0.71	0.011	0.003	0.033	0.002	0.003	0.180	0.280	0.037	0.0031	0.010	0.030	0.003	0.0055
Ts			73 216																	
13-16 Tc	247447	57 583	72 629	39	0.79	0.163	1.09	0.013	0.005	0.001	0.004	0.004	0.200	0.050	0.040	0.0027	0.020	0.030	0.006	0.0070
Ts			77 684																	
11-19 Tc	247449	56 542	70 005	36	0.81	0.163	1.09	0.018	0.004	0.001	0.005	0.003	0.180	0.040	0.038	0.0024	0.020	0.030	0.004	0.0080
Ts			76 055																	
17-17 Tc	247450	53 659	69 484	35	0.77	0.164	1.08	0.012	0.005	0.001	0.002	0.003	0.200	0.040	0.040	0.0014	0.020	0.030	0.006	0.0070
Ts			74 779																	
8-17 Tc	247451	52 577	70 400	34	0.75	0.159	1.07	0.019	0.005	0.001	0.003	0.003	0.160	0.040	0.038	0.0036	0.030	0.030	0.006	0.0060
Ts			73 651																	
4-16 Tc	247797	66 344	71 951	38	0.92	0.072	0.72	0.013	0.004	0.033	0.003	0.002	0.180	0.280	0.044	0.0021	0.020	0.030	0.006	0.0070
Ts			76 998																	
2-17 Tc	247798	66 313	72 755	35	0.91	0.067	0.71	0.015	0.004	0.030	0.002	0.002	0.180	0.290	0.046	0.0029	0.030	0.030	0.006	0.0060
Ts			76 322																	
22-12 Tc	247799	66 282	75 750	33	0.88	0.068	0.70	0.010	0.004	0.032	0.002	0.002	0.170	0.280	0.041	0.0032	0.020	0.030	0.005	0.0060
Ts			79 586																	
20-15 Tc	247802	63 978	75 268	33	0.85	0.077	0.72	0.010	0.004	0.035	0.002	0.002	0.180	0.280	0.045	0.0030	0.030	0.030	0.005	0.0060
Ts			78 478																	

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM A53-B -02

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ING. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER