

Original Tensioning of Bolts by MT									Re Checks by FETA			
Panel Point No	Bolt Position	Bolt Ref No	Bolt Scan No	Original Length	E Modulus	Final Extension	Original Date/ Steel Temp	Original calculated Force (kN)	Re-measurement Date / Steel temp	Re-measured Extension	Residual Calculated Force	Loss of Force
100 SW	A	89	BS 181	662.98	217.30	2.03	16/09/1999	776.10	13/09/2007	1.60	611.55	21.20%
	B	90		662.19	189.74	2.33	14° C	777.80	17° C	1.96	654.13	15.90%
	C	91		663.17	213.75	2.08		782.20		1.64	616.60	21.17%
	D	92		661.81	213.75	2.02		759.60		1.65	620.36	18.33%
98 SW	A	77	BS 181	661.53	202.98	2.16	09/09/1999	771.30	13/09/2007	1.76	628.37	18.53%
	B	78		662.27	180.58	2.45	13° C	778.40	17° C	2.11	670.20	13.90%
	C	79		662.48	203.77	2.17		777.90		1.74	623.65	19.83%
	D	80		662.27	202.98	2.16		771.30		1.77	631.94	18.07%
96 SW	A	25	BS 181	661.59	204.46	2.13	09/09/1999	766.20	13/09/2007	1.70	611.38	20.21%
	B	26		663.47	192.34	2.33	12.8° C	788.40	17° C	1.87	632.65	19.76%
	C	27		663.34	180.32	2.48		786.80		1.98	628.00	20.18%
	D	28		661.15	178.46	2.50		784.90		n/a	N/A	N/A
94 SW	A	96	BS 183	662.84	196.48	2.21	30/06/1999	763.90	19/05/2008	1.87	646.27	15.40%
	B	97		663.43	174.42	2.58	14.3° C	791.70	13° C	2.08	638.13	19.40%
	C	98		661.86	198.00	2.21		769.80		1.84	640.82	16.76%
	D	99		662.04	178.68	2.48		779.60		2.07	650.57	16.55%
92 SW	A	92	BS 183	660.85	179.34	2.52	23/06/1999	795.10	19/05/2008	2.15	678.21	14.70%
	B	93		663.29	183.75	2.42	12.0° C	782.30	13° C	2.00	646.41	17.37%
	C	94		663.29	201.42	2.20		779.60		1.82	644.80	17.29%
	D	95		663.79	187.03	2.42		796.30		2.01	661.24	16.96%
90 SW	A	25	BS 183	661.96	165.08	2.60	12/05/1999	755.10	17/09/2007	2.05	595.25	21.17%
	B	26		662.42	170.07	2.59	13.90° C	774.90	11° C	1.97	589.31	23.95%
	C	27		663.09	191.55	2.21		744.80		1.81	609.83	18.12%
	D	28		663.19	166.18	2.65		774.80		2.11	616.75	20.40%
88 SW	A	109	BS 181	660.26	205.93	2.10	13/10/1999	760.80	17/09/2007	2.05	742.55	2.40%
	B	110		662.24	190.62	2.32	13° C	778.00	11° C	1.96	657.17	15.53%
	C	111		662.48	201.88	2.17		770.70		1.81	642.72	16.61%
	D	112		661.74	210.15	2.07		765.30		2.00	739.28	3.40%
86 SW	A	141	BS 184	662.01	198.82	2.20	05/08/1999	769.50	21/09/2007	2.16	755.38	1.84%
	B	142		661.90	204.01	2.13	16.8° C	764.50	12° C	2.09	749.98	1.90%
	C	143		663.43	200.37	2.16		761.40		2.00	704.88	7.42%
	D	144		661.87	199.60	2.16		758.50		2.05	719.72	5.11%
84 SW	A	53	BS 184	662.04	193.96	2.19	25/01/2000	747.30	25/09/2007	1.68	573.16	23.30%
	B	54		662.35	184.39	2.42	2° C	785.00	13° C	1.89	612.99	21.91%
	C	55		662.11	154.02	2.94		796.70		1.98	536.41	32.67%
	D	56		661.27	173.98	2.60		795.80		2.16	661.00	16.94%
82 SW	A	45	BS 184	661.60	183.10	2.49	24/01/2000	802.10	01/10/2007	2.09	673.11	16.08%
	B	46		661.20	175.73	2.58	4° C	797.60	13° C	2.13	658.38	17.45%
	C	47		661.12	197.62	2.25		782.30		1.71	594.40	24.02%
	D	48		661.00	183.10	2.48		798.90		2.10	676.33	15.34%
80 SW	A	29	BS 184	662.45	172.26	2.57	20/01/2000	778.90	11/10/2007	2.04	618.11	20.64%
	B	30		661.83	185.05	2.44	4° C	794.40	15° C	1.99	647.73	18.46%
	C	31		661.67	178.12	2.52		789.70		2.02	632.87	19.86%
	D	32		661.65	181.83	2.48		793.30		2.01	642.85	18.96%
78 SW	A	93	BS 183	662.29	187.70	2.40	14/01/2000	792.50	11/10/2007	1.93	637.20	19.60%
	B	94		662.05	183.75	2.37	3° C	766.20	15° C	1.94	627.02	18.17%
	C	95		661.95	171.70	2.60		785.40		2.04	616.10	21.56%
	D	96		661.95	179.34	2.49		785.60		1.98	624.59	20.50%
76 SW	A	73	BS 183	661.20	178.73	2.50	09/01/2000	786.10	19/10/2007	2.08	653.90	16.82%
	B	74		661.58	171.70	2.58	2° C	779.40	9° C	2.07	625.16	19.79%
	C	75		662.27	178.73	2.50		786.10		2.04	641.33	18.42%
	D	76		661.36	173.98	2.62		801.90		2.19	670.18	16.43%
74 SW	A	13	BS 184	662.31	181.83	2.48	15/12/1999	793.30	19/10/2007	2.16	690.83	12.92%
	B	14		662.27	176.32	2.56	3° C	794.10	9° C	2.30	713.31	10.17%
	C	15		661.25	183.75	2.47		798.50		2.03	656.11	17.83%
	D	16		661.22	185.70	2.42		790.60		2.01	656.54	16.96%
72 SW	A	31	BS 183	660.93	181.83	2.48	23/11/1999	793.30	25/10/2007	2.09	668.44	15.74%
	B	32		660.98	185.05	2.43	7° C	791.10	8° C	2.01	654.24	17.30%
	C	33		662.11	203.77	2.18		781.50		1.73	620.07	20.66%
	D	34		660.34	172.26	2.63		797.00		2.39	724.16	9.14%
70 SW	A	15	BS 183	662.47	180.58	2.47	16/11/1999	784.70	25/10/2007	2.16	686.08	12.57%
	B	16		661.62	172.26	2.63	3° C	797.00	8° C	2.18	660.53	17.12%
	C	17		661.54	198.37	2.22		774.80		1.81	631.55	18.49%
	D	18		661.50	176.92	2.55		793.70		2.13	662.84	16.49%
68 SW	A	130	BS 183	662.48	183.11	2.43	10/11/1999	782.80	06/11/2007	2.14	689.25	11.95%
	B	131		661.44	181.20	2.49	6° C	793.80	8° C	2.06	656.56	17.29%
	C	132		661.58	180.58	2.49		791.10		2.08	660.67	16.49%
	D	133		661.38	176.92	2.50		778.10		2.45	762.42	2.02%
66 SW	A	116	BS 183	661.24	183.75	2.54	28/10/1999	821.10	06/11/2007	2.08	672.27	18.13%
	B	117		662.59	173.98	2.61	9° C	798.90	8° C	2.22	679.37	14.96%
	C	118		661.28	180.58	2.49		791.10		2.12	673.37	14.88%
	D	119		661.74	184.39	2.41		781.80		1.98	642.18	17.86%
64 SW	A	86	BS 183	662.15	185.05	2.41	18/10/1999	784.60	15/11/2007	2.14	696.55	11.22%
	B	87		662.19	170.03	2.67	9° C	798.70	6° C	2.25	672.91	15.75%
	C	88		662.56	207.81	2.10		767.80		1.96	716.43	6.69%
	D	89		661.91	187.70	2.41		795.80		2.08	686.72	13.71%
62 SW	A	62	BS 183	661.46	206.00	2.12	07/10/1999	768.30	15/11/2007	1.86	673.96	12.28%
	B	63		662.33	156.53	2.91	11° C	801.40	6° C	2.51	691.07	13.77%
	C	64		662.12	203.55	2.15		769.90		1.76	630.14	18.15%
	D	65		661.84	168.30	2.67		790.60		2.36	698.63	11.63%
60 SW	A	58	BS 183	662.19	187.61	2.40	16/09/1999	792.20	26/03/2008	2.07	683.09	13.77%
	B	59		662.87	182.40	2.55	14° C	818.30	6° C	2.02	648.08	20.80%
	C	60		662.10	181.14	2.48		790.30		2.01	640.41	18.97%
	D	61		662.26	160.64	2.85		805.50		2.46	695.09	13.71%
58 SW	A	22	BS 183	NO EXISTING FIGS.	178.60	2.41	13/09/1999	757.30	26/03/2008	2.20	691.12	8.74%
	B	23			181.83	2.42	15° C	774.10	5° C	2.44	780.38	-0.81%
	C	24			187.26	2.29		754.40		1.95	642.29	14.86%
	D	25			160.34	160.34		761.60		2.42	682.51	10.38%
56 SW	A	134	BS 183	662.00	186.36	2.39	31/08/1999	783.60	07/04/2008	2.62	858.83	-9.60%
	B	135		662.33	181.83	2.49	16° C	796.50	6° C	1.93	617.27	22.50%
	C	136		662.21	179.96	2.49		788.40		2.20	696.39	11.67%
	D	137		662.54	189.05	2.39		794.90		2.10	698.31	12.15%
54 SW	A	6	BS 183	663.55	180.53	2.41	19/08/1999	765.40	07/04/2008	1.70	539.82	29.47%
	B	7		661.69	179.24	2.39	16° C	753.70	6° C	2.27	715.67	5.05%
	C	8		662.62	182.50	2.37		760.90		1.98	635.59	1

	D	67		661.81	183.67	2.38		769.10		2.07	668.74	13.05%
	E	68		662.52	185.00	2.35		764.90		1.99	647.55	15.34%
	F	69		661.75	181.06	2.45		780.40		2.48	789.81	-1.21%
48 SW	A	35	BS 183	662.05	181.83	2.47	14/05/1999	790.10	01/05/2008	2.2	703.62	10.95%
	B	34		664.29	195.40	2.26	9.5° C	776.90	14° C	1.8	618.65	20.37%
	C	36		662.83	193.96	2.30		784.80		None Taken	N/A	N/A
	D	37		663.30	200.65	2.23		787.20		1.84	649.39	17.51%
	E	38		661.19	182.47	2.38		764.00		2	641.91	15.98%
	F	39		663.61	197.62	2.23		775.30		1.53	531.83	31.40%

100 NW	A	1	BS 183	662.64		2.04	15/03/1999	742.70	13/09/2007	11.29	4110.33	-453.43%
	B	2		661.05		2.05		746.40		1.51	549.79	26.34%
	C	3		662.85		2.08		757.30		1.63	593.46	21.63%
	D	4		663.90		2.05		746.40		1.04	378.66	49.27%
98 NW	A	53	BS 181	662.08	204.56	2.15	26/08/1999	773.80	13/09/2007	1.75	0.00	100.00%
	B	54		662.24	181.20	2.47		787.40		2.15	685.25	12.97%
	C	55		662.11	210.31	2.06		762.20		1.66	614.07	19.43%
	D	56		661.55	180.58	2.46		781.50		2.10	667.02	14.65%
96 NW	A	124	BS 183	662.56	199.52	2.21	29/07/1999	775.80	13/09/2007	1.78	624.68	19.48%
	B	125		662.16	185.79	2.42		791.00		1.98	647.05	18.20%
	C	126		663.36	210.15	2.08		769.00		1.92	709.71	7.71%
	D	127		661.15	186.46	2.41		790.60		2.18	714.98	9.57%
94 NW	A	120	BS 183	661.31	199.94	2.14	14/07/1999	752.80	19/05/2008	1.83	643.58	14.51%
	B	121		661.46	192.28	2.23		754.40		1.79	605.39	19.75%
	C	122		661.99	204.01	2.10		753.70		1.90	681.80	9.54%
	D	123		661.85	189.38	2.29		763.00		1.88	626.24	17.92%
92 NW	A	80	BS 183	661.60	177.34	2.41	13/06/1999	751.90	16/05/2008	2.05	639.46	14.95%
	B	81		663.70	174.87	2.48		763.00		2.03	624.40	18.17%
	C	82		662.71	181.18	2.39		761.80		1.97	627.81	17.59%
	D	83		660.30	179.24	2.38		750.50		1.97	621.09	17.24%
90 NW	A	47	BS 183	661.79	178.73	2.39	27/05/1999	751.50	16/05/2008	1.87	587.88	21.77%
	B	48		661.93	175.15	2.51		773.40		1.94	597.67	22.72%
	C	49		661.70	179.34	2.54		801.40		1.97	621.43	22.46%
	D	50		661.99	178.12	2.51		786.40		2.00	626.60	20.32%
88 NW	A	97	BS 181	661.68	198.36	2.26	23/09/1999	788.70	16/05/2008	1.82	635.00	19.49%
	B	98		661.96	162.63	2.88		824.00		2.34	669.37	18.77%
	C	99		661.72	188.37	2.40		795.40		1.76	583.14	26.69%
	D	100		661.80	188.37	2.41		798.70		1.90	629.53	21.18%
86 NW	A	33	BS 181	662.31	201.81	2.12	19/08/1999	752.70	16/05/2008	1.80	638.95	15.11%
	B	34		661.66	179.79	2.48		784.40		2.06	651.45	16.95%
	C	35		662.07	197.14	2.20		763.00		1.79	620.70	18.65%
	D	36		661.57	206.72	2.11		767.40		1.67	607.23	20.87%
84 NW	A	33	BS 184	662.18	191.12	2.45	25/01/2000	823.80	16/05/2008	1.96	658.89	20.02%
	B	34		661.88	183.11	2.48		798.90		1.99	640.94	19.77%
	C	35		662.35	187.03	2.39		786.40		1.87	615.18	21.77%
	D	36		662.49	183.11	2.49		802.10		1.96	631.28	21.30%
82 NW	A	97	BS 183	658.92	206.17	2.09	21/01/2000	758.10	15/05/2008	1.76	638.25	15.81%
	B	98		660.57	180.58	2.48		787.90		2.01	638.43	18.97%
	C	99		662.36	185.05	2.40		781.30		1.72	559.85	28.34%
	D	100		660.86	187.03	2.37		779.80		1.99	654.66	16.05%
80 NW	A	77	BS 183	661.15	202.98	2.17	11/01/2000	774.90	15/05/2008	1.80	642.65	17.07%
	B	78		661.99	175.73	2.57		794.60		2.10	649.11	18.31%
	C	79		660.80	208.64	2.11		774.50		1.72	631.21	18.50%
	D	80		660.95	182.47	2.48		796.10		2.01	645.12	18.97%
78 NW	A	45	BS 183	662.36	202.98	2.14	01/12/1999	764.20	14/05/2008	1.99	710.49	7.03%
	B	46		662.15	175.14	2.58		795.00		2.18	671.57	15.53%
	C	47		660.87	186.36	2.39		783.60		2.01	658.87	15.92%
	D	48		662.19	181.83	2.45		783.70		2.05	655.65	16.34%
76 NW	A	35	BS 183	660.89	210.31	2.06	21/11/1999	762.20	14/05/2008	1.78	658.46	13.61%
	B	36		661.34	185.70	2.42		790.60		2.03	663.07	16.13%
	C	37		660.30	191.82	2.26		762.70		1.91	644.43	15.51%
	D	38		661.05	185.7	2.42		790.60		2.04	666.34	15.72%
74 NW	A	11	BS 183	661.60	189.05	2.33	15/11/1999	775.00	13/05/2008	2.02	671.71	13.33%
	B	12		662.03	178.12	2.54		796.00		2.32	726.86	8.69%
	C	13		662.25	190.43	2.36		790.70		1.95	653.16	17.39%
	D	14		662.09	181.2	2.51		790.60		2.12	675.69	14.54%
72 NW	A	134	BS 183	662.10	187.03	2.39	10/11/1999	786.40	13/05/2008	2.05	674.40	14.24%
	B	135		661.96	184.40	2.47		801.30		1.98	642.21	19.85%
	C	136		661.20	189.74	2.38		794.50		1.90	634.11	20.19%
	D	137		662.36	175.73	2.65		819.30		2.22	686.20	16.25%
70 NW	A	120	BS 183	660.94	207.81	2.09	29/10/1999	764.10	21/09/2007	1.77	646.98	15.33%
	B	121		662.42	175.73	2.58		797.60		2.12	655.29	17.84%
	C	122		661.59	189.06	2.40		798.30		1.96	651.79	18.35%
	D	123		661.16	173.41	2.64		805.40		2.30	701.54	12.90%
68 NW	A	96	BS 183	662.61	187.70	2.37	25/10/1999	782.60	21/09/2007	2.07	683.42	12.67%
	B	97		662.40	180.58	2.48		787.90		2.05	651.14	17.36%
	C	98		660.54	186.36	2.41		790.20		1.98	649.04	17.86%
	D	99		662.02	184.39	2.43		788.30		2.02	655.15	16.89%
66 NW	A	90	BS 183	662.38	201.42	2.20	13/10/1999	779.60	01/05/2008	1.95	690.86	11.38%
	B	91		662.31	181.83	2.43		777.30		2.12	678.04	12.77%
	C	92		662.36	202.98	2.19		782.10		2.08	742.62	5.05%
	D	93		662.17	160.64	2.84		802.60		2.53	714.87	10.93%
64 NW	A	66	BS 183	662.16	180.05	2.48	05/10/1999	785.60	01/10/2007	2.13	674.56	14.13%
	B	67		661.34	155.11	2.94		802.30		2.42	660.25	17.71%
	C	68		662.38	171.08	2.62		788.60		2.06	619.89	21.39%
	D	69		661.83	183.26	2.46		793.10		1.94	625.35	21.15%
62 NW	A	142	BS 183	662.29	189.11	2.36	24/09/1999	785.20	01/10/2007	2.19	728.47	7.23%
	B	143		662.67	189.81	2.33		778.10		1.96	654.37	15.90%
	C	144		663.26	191.23	2.28		767.10		1.93	649.18	15.37%
	D	145		662.76	186.35	2.36		773.70		2.02	662.11	14.42%
60 NW	A	46	BS 183	662.34	194.68	2.26	15/09/1999	774.10	25/04/2008	2.02	691.71	10.64%
	B	47		661.97	181.21	2.52		803.40		2.29	729.91	9.15%
	C	48		662.61	191.13	2.28		766.70		1.95	655.56	14.50%
	D	49		661.99	191.83	2.28		769.50		1.92	647.84	15.81%
58 NW	A	18	BS 183	661.17	181.71	2.42	08/09/1999	773.60	12/10/2007	2.16	690.37	10.76%
	B	19		662.44	156.14	2.88		791.10		2.59	711.32	10.08%
	C	20		662.96	201.02	2.16		763.90		1.88	664.73	12.98%
	D	21		662.23	181.06	2.47		786.80		2.17	691.09	12.16%
56 NW	A	138	BS 183	662.28	184.52	2.31	27/08/1999	749.90	12/10/2007	2.01	652.36	13.01%
	B	139		662.69	187.28	2.34		771.00		1.83	602.83	21.81%
	C	140		662.26	204.03	2.37		850.70		1.88	674.69	20.69%
	D	141		662.02	177.35	2.44		761.30		2.08	648.85	14.77%
54 N.W.	A	128	B.S. 183	662.77	184.34	2.36	19/08/1999	765.40	15/04/2008	Not Available	N/A	N/A
	B	129		662.38	184.34	2.38						
	C	130		663.18	182.37	2.4		771.90		7°C	2.4	778.18
										2.36	757.04	1.68%

	D	131		662.01	180.44	2.44		774.60		2.37		
52 NW	A	114	BS 183	661.56	201.55	2.12	09/08/1999	751.70	22/10/2007 11° C	1.94	687.76	8.51%
	B	115		661.39	184.51	2.39		775.80		2.49	808.11	-4.16%
	C	116		661.93	183.83	2.36		763.30		nonetaken	N/A	N/A
	D	117		661.84	187.96	2.31		763.90		2.13	704.20	7.82%
	E	118		No Figure	210.87	2.01		745.70		1.93	715.85	4.00%
	F	119		665.02	185.88	2.35		768.50		2.14	699.68	8.96%
50 NW	A	66	BS 183	662.15	186.35	2.38	12/07/1999	780.30	30/10/2007 11° C	2.24	734.22	5.90%
	B	67		662.03	183.66	2.44		788.40		2.09	675.17	14.36%
	C	68		655.25	197.90	2.21		769.50		nonetaken	N/A	N/A
	D	69		661.06	203.42	2.17		776.60		1.91	683.40	12.00%
	E	70		662.13	184.99	2.37		771.30		2.13	693.07	10.14%
	F	71		662.22	176.67	2.54		789.50		2.27	705.41	10.65%
48 NW	A	40	BS 183	662.33	191.83	2.35	20/05/1999	793.10	09/11/2007 7° C	1.85	624.22	21.29%
	B	41		662.46	187.03	2.39		786.40		2	657.95	16.33%
	C	42		663.99	196.87	2.27		786.20		nonetaken	N/A	N/A
	D	43		662.18	185.70	2.41		787.40		2.11	689.20	12.47%
	E	44		663.38	189.74	2.37		791.10		nonetaken	N/A	N/A
	F	45		663.97	191.83	2.3		776.20		2.01	678.21	12.62%