

FETA Maintenance Department
Cable Band Bolt
Tension check

August / September 07

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 14 ⁰ C	776.10	29/08/2007 17 ⁰ C	1.90	726.21	6.43%
	B	90		662.19	189.74	2.33		777.80		1.96	654.13	15.90%
	C	91		663.17	213.75	2.08		782.20		1.69	635.39	18.77%
	D	92		661.81	213.75	2.02		759.60		1.87	703.07	7.44%
98 SW	A	77	BS 181	661.53	202.98	2.16	09/09/1999 13 ⁰ C	771.30	29/08/2007 17 ⁰ C	1.79	639.08	17.14%
	B	78		662.27	180.58	2.45		778.40		2.09	663.85	14.72%
	C	79		662.48	203.77	2.17		777.90		1.77	634.40	18.45%
	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 12.8 ⁰ C	766.20	29/08/2007 17 ⁰ C	1.98	712.07	7.06%
	B	26		663.47	192.34	2.33		788.40		1.86	629.26	20.18%
	C	27		663.34	180.32	2.48		786.80		2.01	637.52	18.97%
	D	28		661.15	178.46	2.50		784.90		2.05	643.50	18.02%
94 SW	A	96	BS 183	662.84	196.48	2.21	30/06/1999 14.3 ⁰ C	763.90	30/08/2007 18 ⁰ C	1.80	622.07	18.57%
	B	97		663.43	174.42	2.58		791.70		2.08	638.13	19.40%
	C	98		661.86	198.00	2.21		769.80		1.95	679.13	11.78%
	D	99		662.04	178.68	2.48		779.60		2.04	641.15	17.76%
92 SW	A	92	BS 183	660.85	179.34	2.52	23/06/1999 12.0 ⁰ C	795.10	30/08/2007 18 ⁰ C	2.11	665.60	16.29%
	B	93		663.29	183.75	2.42		782.30		1.98	639.95	18.20%
	C	94		663.29	201.42	2.20		779.60		1.95	690.86	11.38%
	D	95		663.79	187.03	2.42		796.30		1.96	644.79	19.03%
100 NW	A	1	BS 183	662.64		2.04	15/03/1999	742.70	29/08/2007 17 ⁰ C	1.57	571.59	23.04%
	B	2		661.05		2.05		746.40		2.48	902.96	-20.98%
	C	3		662.85		2.08		757.30		1.44	524.28	30.77%
	D	4		663.90		2.05		746.40		1.12	407.79	45.37%
98 NW	A	53	BS 181	662.08	204.56	2.15	26/08/1999	773.80	29/08/2007 16 ⁰ C	1.78	640.46	17.23%
	B	54		662.24	181.20	2.47		787.40		2.19	698.00	11.35%
	C	55		662.11	210.31	2.06		762.20		1.97	728.75	4.39%
	D	56		661.55	180.58	2.46		781.50		2.13	676.55	13.43%
96 NW	A	124	BS 183	662.56	199.52	2.21	29/07/1999	775.80	29/08/2007 16 ⁰ C	1.99	698.38	9.98%
	B	125		662.16	185.79	2.42		791.00		2.03	663.39	16.13%
	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		2.00	655.94	17.03%
84 NW	A	33	BS 184	662.18	191.12	2.45	25/01/2000	823.80	03/09/2007 12 ⁰ C	1.95	655.53	20.43%
	B	34		661.88	183.11	2.48		798.90		2.03	653.82	18.16%
	C	35		662.35	187.03	2.39		786.40		1.89	621.76	20.94%
	D	36		662.49	183.11	2.49		802.10		2.01	647.38	19.29%
82 NW	A	97	BS 183	658.92	206.17	2.09	21/01/2000	758.10	03/09/2007 11 ⁰ C	1.79	649.13	14.37%
	B	98		660.57	180.58	2.48		787.90		2.08	660.67	16.15%
	C	99		662.36	185.05	2.40		781.30		1.75	569.61	27.09%
	D	100		660.86	187.03	2.37		779.80		2.03	667.82	14.36%
78 NW	A	45	BS 183	662.36	202.98	2.14	01/12/1999	764.20	07/09/2007 16 ⁰ C	1.96	699.78	8.43%
	B	46		662.15	175.14	2.58		795.00		2.14	659.25	17.08%
	C	47		660.87	186.36	2.39		783.60		1.96	642.48	18.01%
	D	48		662.19	181.83	2.45		783.70		2.02	646.05	17.56%
76 NW	A	35	BS 183	660.89	210.31	2.06	21/11/1999	762.20	07/09/2007 16 ⁰ C	1.76	651.06	14.58%
	B	36		661.34	185.70	2.42		790.60		2.02	659.80	16.54%
	C	37		660.30	191.82	2.26		762.70		1.89	637.69	16.39%
	D	38		661.05	185.7	2.42		790.60		2.02	659.80	16.54%

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54 N.W.	A	128	B.S. 183	662.77	184.34	2.36	19/08/1999 12.0 ⁰ C	765.40	22/10/2007 11&C	2.05	664.70	13.16%	retensioned 15/ retensioned 15/ retensioned 15/ replaced 15/05/
	B	129		662.38	184.34	2.38		771.90		1.94	629.03	18.51%	
	C	130		663.18	182.37	2.4		770.00		1.9	609.48	20.85%	
	D	131		662.01	180.44	2.44		774.60		not taken			
72 S.W.	A	31	B.S. 183	660.93	181.83	2.48	23/11/1999 7.0 ⁰ C	793.30	25/10/2007 8&C	2.09	668.44	15.74%	
	B	32		660.98	185.05	2.43		791.10		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%	
												880.28%	
												16.30%	



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	B	90		662.19	189.74	2.33		777.80		1.96	654.13	15.90%
	C	91		663.17	213.75	2.08		782.20		1.69	635.39	18.77%
	D	92		661.81	213.75	2.02		759.60		1.87	703.07	7.44%
98 SW	A	77	BS 181	661.53	202.98	2.16	09/09/1999 13 ⁰ C	771.30	29/08/2007 17 ⁰ C	1.79	639.08	17.14%
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