

From: Simmons, Daniel
To: [Collins, Michael](#)
Cc: [Nagarajah, Gobhina](#); [Muzychka, Irene](#); [Martin, Dana](#)
Subject: [Potential Junk/Spam] RE: Followups from Gilbert Bennett Interview
Date: Monday, May 6, 2019 9:16:37 PM
Attachments: [Tower Weights and Quatities at Bid and Final.xlsx](#)

Michael,

Regarding question 3, Gilbert Bennett reports as follows (spreadsheet attached):

At award in August 2014, we were expecting to use approximately 29,000 tonnes of steel for the transmission towers for the Labrador Island Transmission Link. At completion, the actual mass was approximately 34,000 tonnes.

The total tower count was reduced slightly from award to completion (3237 to 3223), but the towers were taller (and therefore heavier) than originally expected.

Regards,
Dan

Daniel Simmons Q.C.
Partner
McInnes Cooper

tel +1 (709) 570 7328 | fax +1 (709) 722 1763

From: Collins, Michael <MichaelCollins@muskratfallsinquiry.ca>
Sent: Tuesday, April 30, 2019 5:16 PM
To: Simmons, Daniel <daniel.simmons@mcinnescooper.com>
Cc: Nagarajah, Gobhina <GobhinaNagarajah@muskratfallsinquiry.ca>; Muzychka, Irene <IreneMuzychka@MuskratFallsInquiry.ca>
Subject: FW: Followups from Gilbert Bennett Interview

Dan,

If we can get an answer on question 3 soon that would be very helpful.

Thanks,
Michael

Michael Collins
Associate Counsel
Direct: 709-729-6016

Commission of Inquiry Respecting the Muskrat Falls Project

5th Floor, Suite 502, Beothuck Building
20 Crosbie Place

St. John's, NL A1B 3Y8

Tel: (709) 729-6076

Toll Free: 1-833-235-7702

Fax: (709) 729-6070

From: Collins, Michael

Sent: Saturday, April 27, 2019 10:01 AM

To: 'Simmons, Daniel' <daniel.simmons@mcinnescooper.com>

Cc: Muzychka, Irene <IreneMuzychka@MuskratFallsInquiry.ca>; Nagarajah, Gobhina <GobhinaNagarajah@muskratfallsinquiry.ca>

Subject: Followups from Gilbert Bennett Interview

Dan,

You asked me to send you some followup questions from the Gilbert Bennett interview:

- 1) What was the planned reliability return period for the Gull Island transmission lines as they stood in early 2010?
- 2) How much of the LIL was ultimately accessible by all-season access roads? seasonal access roads? trails? helicopter only?
- 3) What was the planned steel weight in the LIL as of August 2014? What is it today?

Thanks,
Michael

Michael Collins
Associate Counsel
Direct: 709-729-6016

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20 Crosbie Place
St. John's, NL A1B 3Y8

Tel: (709) 729-6076

Toll Free: 1-833-235-7702

Fax: (709) 729-6070

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CT-0327 Tower Weight Reconciliation

Item No.	Description	Work Front 1 (Excluding Zone F10)						Work Fronts 2 & 3 (Including Zone F10 of WF1)						
		Weight Change (kg) w/ Electrode ~S2-547						Weight Change (kg) w/o Electrode						
		Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty	Final Weight (kg)	Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty WF 2 and 3	Final Qty	Final Weight (kg)
Assembly of Suspension Tower Type "A1" - Weights Agreed														
S1-D1	Assembly of Suspension Tower Type "A1 + 0" as per dwg. 505573-4622-43DD-0042	6463	40	258520	6501.83	38	247069.55	6222	38	236436	6257.12	30	30	187713.68
S1-D2	Assembly of Suspension Tower Type "A1 + 1.5" as per dwg. 505573-4622-43DD-0042	6670	24	160080	6708.53	24	161004.78	6429	20	128580	6463.82	16	16	103421.19
S1-D3	Assembly of Suspension Tower Type "A1 + 3" as per dwg. 505573-4622-43DD-0042	6791	36	244476	6829.74	36	245870.71	6550	30	196500	6585.03	32	32	210721.09
S1-D4	Assembly of Suspension Tower Type "A1 + 4.5" as per dwg. 505573-4622-43DD-0042	6999	58	405942	7036.44	56	394040.87	6758	20	135160	6791.74	24	24	163001.67
S1-D5	Assembly of Suspension Tower Type "A1 + 6" as per dwg. 505573-4622-43DD-0042	7034	100	703400	7072.22	104	735511.24	6793	54	366822	6827.52	52	52	355030.81
S1-D6	Assembly of Suspension Tower Type "A1 + 7.5" as per dwg. 505573-4622-43DD-0042	7155	101	722655	7193.44	103	740924.64	6914	71	490894	6948.74	64	64	444719.06
S1-D7	Assembly of Suspension Tower Type "A1 + 9" as per dwg. 505573-4622-43DD-0042	7277	135	982395	7314.79	132	965551.88	7036	97	682492	7070.08	95	95	671657.51
S1-D8	Assembly of Suspension Tower Type "A1 + 10.5" as per dwg. 505573-4622-43DD-0042	7484	75	561300	7521.35	73	549058.90	7243	65	470795	7276.65	70	70	509365.29
S1-D9	Assembly of Suspension Tower Type "A1 + 12" as per dwg. 505573-4622-43DD-0042	7605	69	524745	7642.62	72	550268.39	7364	94	692216	7397.91	95	95	702801.33
S1-D10	Assembly of Suspension Tower Type "A1 + 13.5" as per dwg. 505573-4622-43DD-0042	7727	31	239537	7763.84	31	240678.92	7486	86	643796	7519.13	79	79	594011.14
S1-D11	Assembly of Suspension Tower Type "A1 + 15" as per dwg. 505573-4622-43DD-0042	7848	19	149112	7885.06	18	141931.01	7607	85	646595	7640.35	88	88	672350.62
S1-D12	Assembly of Suspension Tower Type "A1 + 16.5" as per dwg. 505573-4622-43DD-0042	7969	7	55783	8006.40	10	80064.00	7728	107	826896	7761.69	106	106	822739.34
S1-D13	Assembly of Suspension Tower Type "A1 + 18" as per dwg. 505573-4622-43DD-0042	8091	11	89001	8127.74	14	113788.41	7850	159	1248150	7883.04	181	181	1426829.46
Assembly of Suspension Tower Type "A2" - Under Review														
S1-D14	Assembly of Suspension Tower Type "A2 + 0" as per dwg. 505573-4622-43DD-0044	9358	0	0	9796.26	0	0.00	8922	0	0	9327.92	0	0	0.00
S1-D15	Assembly of Suspension Tower Type "A2 + 1.5" as per dwg. 505573-4622-43DD-0044	9721	1	9721	10159.22	1	10159.22	9285	0	0	9690.88	0	0	0.00
S1-D16	Assembly of Suspension Tower Type "A2 + 3" as per dwg. 505573-4622-43DD-0044	9936	7	69552	10375.29	7	72627.01	9500	0	0	9906.95	0	0	0.00
S1-D17	Assembly of Suspension Tower Type "A2 + 4.5" as per dwg. 505573-4622-43DD-0044	10299	22	226578	10738.25	21	225503.26	9863	1	9863	10269.91	1	1	10269.91
S1-D18	Assembly of Suspension Tower Type "A2 + 6" as per dwg. 505573-4622-43DD-0044	10367	70	725690	10807.56	50	540377.76	9931	8	79448	10339.22	8	8	82713.75
S1-D19	Assembly of Suspension Tower Type "A2 + 7.5" as per dwg. 505573-4622-43DD-0044	10584	105	1111320	11023.68	106	1168510.49	10148	2	20296	10555.35	3	3	31666.04
S1-D20	Assembly of Suspension Tower Type "A2 + 9" as per dwg. 505573-4622-43DD-0044	10800	96	1036800	11239.84	103	1157703.89	10364	4	41456	10771.51	4	4	43086.03
S1-D21	Assembly of Suspension Tower Type "A2 + 10.5" as per dwg. 505573-4622-43DD-0044	11162	45	502290	11602.71	55	638149.27	10726	9	96534	11134.38	12	12	133612.53
S1-D22	Assembly of Suspension Tower Type "A2 + 12" as per dwg. 505573-4622-43DD-0044	11376	22	250272	11818.85	27	319109.04	10940	18	196920	11350.52	18	18	204309.30
S1-D23	Assembly of Suspension Tower Type "A2 + 13.5" as per dwg. 505573-4622-43DD-0044	11593	16	185488	12034.98	13	156454.77	11157	8	89256	11566.65	6	6	69399.87
S1-D24	Assembly of Suspension Tower Type "A2 + 15" as per dwg. 505573-4622-43DD-0044	11810	4	47240	12251.11	6	73506.67	11374	5	56870	11782.77	3	3	35348.32
S1-D25	Assembly of Suspension Tower Type "A2 + 16.5" as per dwg. 505573-4622-43DD-0044	12026	2	24052	12467.27	4	49869.08	11590	2	23180	11998.93	5	5	59994.67
S1-D26	Assembly of Suspension Tower Type "A2 + 18" as per dwg. 505573-4622-43DD-0044	12242	1	12242	12683.43	0	0.00	11806	2	23612	12215.09	1	1	12215.09
S1-D27	Assembly of Suspension Tower Type "A2 + 19.5" as per dwg. 505573-4622-43DD-0044	12602	0	0	13046.28	1	13046.28	12166	1	12166	12577.94	1	1	12577.94

Item No.	Description	Work Front 1 (Excluding Zone F10)					Work Fronts 2 & 3 (Including Zone F10 of WF1)						
		Weight Change (kg) w/ Electrode ~S2-S47					Weight Change (kg) w/o Electrode						
		Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty	Final Weight (kg)	Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty WF 2 and 3	Final Qty
Assembly of Suspension Tower Type "A3" - Under Review													
S1-D28	Assembly of Suspension Tower Type "A3 + 0" as per dwg. 505573-4622-43DD-0050	n/a			n/a		7800	135		8485	113	117	992722.99
S1-D29	Assembly of Suspension Tower Type "A3 + 1.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8025	20		8743	31	33	288506.26
S1-D30	Assembly of Suspension Tower Type "A3 + 3" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8160	33		8884	30	32	284276.39
S1-D31	Assembly of Suspension Tower Type "A3 + 4.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8385	32		9141	38	38	347374.69
S1-D32	Assembly of Suspension Tower Type "A3 + 6" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8440	37		9167	41	41	375842.62
S1-D33	Assembly of Suspension Tower Type "A3 + 7.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8630	56		9309	55	56	521278.04
S1-D34	Assembly of Suspension Tower Type "A3 + 9" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8730	50		9450	57	60	567010.16
S1-D35	Assembly of Suspension Tower Type "A3 + 10.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		8990	34		9707	29	32	310635.58
S1-D36	Assembly of Suspension Tower Type "A3 + 12" as per dwg. 505573-4622-43DD-0050	n/a			n/a		9080	47		9849	45	47	462901.81
S1-D37	Assembly of Suspension Tower Type "A3 + 13.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		9270	20		9991	24	26	259756.06
S1-D38	Assembly of Suspension Tower Type "A3 + 15" as per dwg. 505573-4622-43DD-0050	n/a			n/a		9370	25		10132	29	32	324232.02
S1-D39	Assembly of Suspension Tower Type "A3 + 16.5" as per dwg. 505573-4622-43DD-0050	n/a			n/a		9560	23		10274	22	23	236299.56
Assembly of Suspension Tower Type "A4" - Weights Agreed							0						
S1-D40	Assembly of Suspension Tower Type "A4 + 0" as per dwg. 505573-4622-43DD-0056	n/a			n/a		9358	0		9281.36	1	1	9281.36
S1-D41	Assembly of Suspension Tower Type "A4 + 1.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		9721	6		9644.21	2	2	19288.42
S1-D42	Assembly of Suspension Tower Type "A4 + 3" as per dwg. 505573-4622-43DD-0056	n/a			n/a		9936	5		9859.98	4	4	39439.91
S1-D43	Assembly of Suspension Tower Type "A4 + 4.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		10299	8		10222.83	7	7	71559.82
S1-D44	Assembly of Suspension Tower Type "A4 + 6" as per dwg. 505573-4622-43DD-0056	n/a			n/a		10367	12		10291.65	12	12	123499.75
S1-D45	Assembly of Suspension Tower Type "A4 + 7.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		10584	12		10507.47	14	14	147104.65
S1-D46	Assembly of Suspension Tower Type "A4 + 9" as per dwg. 505573-4622-43DD-0056	n/a			n/a		10800	17		10723.59	22	22	235919.08
S1-D47	Assembly of Suspension Tower Type "A4 + 10.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		11162	17		11086.10	20	20	221721.90
S1-D48	Assembly of Suspension Tower Type "A4 + 12" as per dwg. 505573-4622-43DD-0056	n/a			n/a		11376	14		11301.93	15	15	169529.02
S1-D49	Assembly of Suspension Tower Type "A4 + 13.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		11593	12		11517.76	14	14	161248.68
S1-D50	Assembly of Suspension Tower Type "A4 + 15" as per dwg. 505573-4622-43DD-0056	n/a			n/a		11810	4		11733.59	12	12	140803.10
S1-D51	Assembly of Suspension Tower Type "A4 + 16.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		12026	6		11949.71	11	11	131446.83
S1-D52	Assembly of Suspension Tower Type "A4 + 18" as per dwg. 505573-4622-43DD-0056	n/a			n/a		12242	1		12165.83	4	4	48663.33
S1-D53	Assembly of Suspension Tower Type "A4 + 19.5" as per dwg. 505573-4622-43DD-0056	n/a			n/a		12602	8		12528.05	7	7	87696.36

Item No.	Description	Work Front 1 (Excluding Zone F10)						Work Fronts 2 & 3 (Including Zone F10 of WF1)						
		Weight Change (kg) w/ Electrode ~S2-547						Weight Change (kg) w/o Electrode						
		Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty	Final Weight (kg)	Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty WF 2 and 3	Final Qty	Final Weight (kg)
Assembly of Suspension Tower Type "B1" - Under Review								0						
S1-D54	Assembly of Suspension Tower Type "B1 + 0" as per dwg. 505573-4622-43DD-0002	13000	0	0	12063.07	0	0.00	12662	0	0	11565.40	0	0	0.00
S1-D55	Assembly of Suspension Tower Type "B1 + 1.5" as per dwg. 505573-4622-43DD-0002	13550	0	0	12571.18	0	0.00	13212	1	13212	12073.51	0	0	0.00
S1-D56	Assembly of Suspension Tower Type "B1 + 3" as per dwg. 505573-4622-43DD-0002	13910	0	0	12845.74	0	0.00	13572	0	0	12348.06	0	0	0.00
S1-D57	Assembly of Suspension Tower Type "B1 + 4.5" as per dwg. 505573-4622-43DD-0002	14460	0	0	13353.85	0	0.00	14122	1	14122	12856.17	1	1	12856.17
S1-D58	Assembly of Suspension Tower Type "B1 + 6" as per dwg. 505573-4622-43DD-0002	14580	1	14580	13399.72	1	13399.72	14242	1	14242	12902.04	1	1	12902.04
S1-D59	Assembly of Suspension Tower Type "B1 + 7.5" as per dwg. 505573-4622-43DD-0002	14980	1	14980	13673.99	1	13673.99	14642	3	43926	13176.32	2	2	26352.64
S1-D60	Assembly of Suspension Tower Type "B1 + 9" as per dwg. 505573-4622-43DD-0002	15150	8	121200	14079.41	6	84476.48	14812	1	14812	13581.74	1	1	13581.74
S1-D61	Assembly of Suspension Tower Type "B1 + 10.5" as per dwg. 505573-4622-43DD-0002	15890	4	63560	14456.66	5	72283.29	15552	3	46656	13958.98	2	2	27917.97
S1-D62	Assembly of Suspension Tower Type "B1 + 12" as per dwg. 505573-4622-43DD-0002	16160	3	48480	14736.36	3	44209.07	15822	2	31644	14238.68	3	3	42716.05
S1-D63	Assembly of Suspension Tower Type "B1 + 13.5" as per dwg. 505573-4622-43DD-0002	16560	5	82800	15010.64	4	60042.54	16222	1	16222	14512.96	0	0	0.00
S1-D64	Assembly of Suspension Tower Type "B1 + 15" as per dwg. 505573-4622-43DD-0002	16960	1	16960	15284.91	1	15284.91	16622	4	66488	14787.24	4	4	59148.96
S1-D65	Assembly of Suspension Tower Type "B1 + 16.5" as per dwg. 505573-4622-43DD-0002	17130	0	0	15690.33	1	15690.33	16792	3	50376	15192.66	2	2	30385.32
S1-D66	Assembly of Suspension Tower Type "B1 + 18" as per dwg. 505573-4622-43DD-0002	17300	1	17300	16095.75	0	0.00	16962	0	0	15598.08	1	1	15598.08
S1-D67	Assembly of Suspension Tower Type "B1 + 19.5" as per dwg. 505573-4622-43DD-0002	18140	1	18140	16347.28	1	16347.28	17802	7	124614	15849.60	4	4	63398.41
S1-D68	Assembly of Suspension Tower Type "B1 + 21" as per dwg. 505573-4622-43DD-0002	18310	0	0	16752.70	0	0.00	17972	1	17972	16255.02	4	4	65020.09
S1-D69	Assembly of Suspension Tower Type "B1 + 22.5" as per dwg. 505573-4622-43DD-0002	18940	0	0	16895.83	1	16895.83	18602	3	55806	16398.16	1	1	16398.16
S1-D70	Assembly of Suspension Tower Type "B1 + 24" as per dwg. 505573-4622-43DD-0002	18880	0	0	17432.40	1	17432.40	18542	1	18542	16934.72	2	2	33869.44
S1-D71	Assembly of Suspension Tower Type "B1 + 25.5" as per dwg. 505573-4622-43DD-0002	19280	0	0	17706.67	0	0.00	18942	2	37884	17209.00	1	1	17209.00
S1-D72	Assembly of Suspension Tower Type "B1 + 27" as per dwg. 505573-4622-43DD-0002	19450	0	0	18112.09	0	0.00	19112	1	19112	17614.42	6	6	105686.51
Assembly of Medium Angle Tower Type "B2" - Under Review														
S1-D73	Assembly of Medium Angle Tower Type "B2" Basic Body as per dwg. 505573-4622-43DD-0058	17192	12	206304	16928	9	152352	16737	57	954009	16431.43	46	46	755845.78
S1-D74	Assembly of +4.5 m body extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058	5802	1	5802	5949.96	0	0	5802	15	87030	5942.47	10	10	59424.69
S1-D75	Assembly of +10.5 m body extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058	8416	2	16832	8554.67	1	8554.67485	8416	23	193568	8554.67	21	21	179648.17
S1-D76	Assembly and Erection of +0 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	350	7	2450	350.33	7	2452.31525	350	9	3150	350.33	6	6	2101.98
S1-D77	Assembly of +1.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	425	9	3825	438.53	5	2192.62875	425	9	3825	438.53	6	6	2631.15
S1-D78	Assembly of +3 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	610	8	4880	610.71	8	4885.642	610	10	6100	610.71	13	13	7939.17
S1-D79	Assembly of +4.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	825	7	5775	826.52	4	3306.0758	825	49	40425	826.52	42	42	34713.80
S1-D80	Assembly of +6 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	930	11	10230	931.62	0	0	930	82	76260	931.62	55	55	51239.27
S1-D81	Assembly of +7.5 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	1150	5	5750	1148.26	11	12630.81325	1150	34	39100	1148.26	26	26	29854.65
S1-D82	Assembly of +9 m leg extension for Medium Angle Tower Type "B2" as per dwg. 505573-4622-43DD-0058, per leg	1400	1	1400	1403.73	1	1403.7344	1400	35	49000	1403.73	36	36	50534.44

Item No.	Description	Work Front 1 (Excluding Zone F10)						Work Fronts 2 & 3 (Including Zone F10 of WF1)						
		Weight Change (kg) w/ Electrode ~S2-547						Weight Change (kg) w/o Electrode						
		Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty	Final Weight (kg)	Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty WF 2 and 3	Final Qty	Final Weight (kg)
Assembly of Medium Angle Tower Type "C1" - Weights Agreed														
S1-D83	Assembly of Medium Angle Tower Type "C1" Basic Body as per dwg. 505573-4622-43DD-0004	18200	22	400400	18118.71	22	398611.65	17834	64	1141376	17492	46	46	804630.23
S1-D84	Assembly of +4.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	4700	0	0	4627.85	1	4627.85	4700	6	28200	4627.85	4	4	18511.41
S1-D85	Assembly of +10.5 m body extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004	8200	1	8200	7940.17	1	7940.17	8200	4	32800	7940.17	4	4	31760.67
S1-D86	Assembly of +0 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	330	48	15840	355.30	48	17054.38	330	76	25080	355.30	50	50	17764.98
S1-D87	Assembly of +1.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	480	8	3840	467.48	8	3739.83	480	51	24480	467.48	28	28	13089.41
S1-D88	Assembly of +3 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	630	8	5040	635.61	4	2542.44	630	36	22680	635.61	16	16	10169.76
S1-D89	Assembly of +4.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	800	8	6400	856.98	10	8569.75	800	15	12000	856.98	20	20	17139.50
S1-D90	Assembly of +6 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	1013	4	4052	999.68	5	4998.41	1013	14	14182	999.68	5	5	4998.41
S1-D91	Assembly of +7.5 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	1199	11	13189	1212.90	11	13341.90	1199	29	34771	1212.90	28	28	33961.21
S1-D92	Assembly of +9 m leg extension for Medium Angle Tower Type "C1" as per dwg. 505573-4622-43DD-0004, per leg	1480	1	1480	1437.26	2	2874.53	1480	35	51800	1437.26	37	37	53178.72
Assembly of Medium Angle Tower Type "C2" - Weights Agreed														
S1-D93	Assembly of Medium Angle Tower Type "C2" Basic Body as per dwg. 505573-4622-43DD-0012	19159	19	364021	20079.0	13	261026.9	18471	32	591072	19320	24	24	463685.52
S1-D94	Assembly of +4.5 m body extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012	5848	3	17544	5904.77	2	11809.5	5848	11	64328	5904.77	11	11	64952.47
S1-D95	Assembly of +10.5 m body extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012		0	0		0	0.0		0	0		0	0	0.00
S1-D96	Assembly of +0 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	410	24	9840	433	17	7368.3	410	16	6560	433	6	6	2600.58
S1-D97	Assembly of +1.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	640	8	5120	659	3	1977.0	640	14	8960	659	8	8	5272.00
S1-D98	Assembly of +3 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	770	9	6930	772	12	9264.0	770	16	12320	772	11	11	8492.00
S1-D99	Assembly of +4.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	999	1	999	997	2	1994.8	999	26	25974	997	14	14	13963.32
S1-D100	Assembly of +6 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	1192	22	26224	1195	10	11950.0	1192	33	39336	1195	22	22	26290.00
S1-D101	Assembly of +7.5 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	1438	6	8628	1434	5	7170.0	1438	14	20132	1434	20	20	28680.00
S1-D102	Assembly of +9 m leg extension for Medium Angle Tower Type "C2" as per dwg. 505573-4622-43DD-0012, per leg	1732	6	10392	1735	3	5206.1	1732	9	15588	1735	15	15	26030.25
Assembly of Dead-End Tower Type "D1" - Under Review														
S1-D103	Assembly of Dead-End Tower Type "D1" Basic Body as per dwg. 505573-4622-43DD-0043 (W/O Body Extension)	19275	44	848100	19885	45	894810	18890	111	2096790	19139	91	91	1741630.95
S1-D104	Assembly of +4.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	4952	1	4952	5177	2	10354	4952	13	64376	5177	9	9	46592.88
S1-D105	Assembly of +10.5 m body extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043	9205	0	0	9650	0	0	9205	21	193305	9650	9	9	86846.97
S1-D106	Assembly of +0 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	341	94	32054	366	92	33690	341	101	34441	366	110	110	40281.25
S1-D107	Assembly of +1.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	483	21	10143	493	23	11340	483	49	23667	493	42	42	20706.93
S1-D108	Assembly of +3 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	689	27	18603	712	28	19944	689	70	48230	712	41	41	29203.84
S1-D109	Assembly of +4.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	904	15	13560	899	14	12582	904	53	47912	899	52	52	46731.37
S1-D110	Assembly of +6 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	1185	11	13035	1093	11	12020	1185	62	73470	1093	33	33	36060.44
S1-D111	Assembly of +7.5 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	1298	8	10384	1306	8	10447	1298	51	66198	1306	44	44	57458.29
S1-D112	Assembly of +9 m leg extension for Dead-End Tower Type "D1" as per dwg. 505573-4622-43DD-0043, per leg	1574	0	0	1587	4	6350	1574	58	91292	1587	42	42	66671.97

Item No.	Description	Work Front 1 (Excluding Zone F10)						Work Fronts 2 & 3 (Including Zone F10 of WF1)						
		Weight Change (kg) w/ Electrode ~S2-547						Weight Change (kg) w/o Electrode						
		Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty	Final Weight (kg)	Bid Unit Weight (kg)	Bid Qty	Bid Weight (kg)	Final Unit Weight (kg)	Final Qty WF 2 and 3	Final Qty	Final Weight (kg)
Assembly of Dead-End Tower Type "D2" - Weights Agreed														
S1-D113	Assembly of Dead-End Tower Type "D2" Basic Body as per dwg. 505573-4622-43DD-0045	20949	25	523725	21537.45	26	559973.62	20161	30	604830	20660	18	18	371875.50
S1-D114	Assembly of +4.5 m body extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045	5081	0	0	6199.84	0	0.00	5081	0	0	6199.84	0	0	0.00
S1-D115	Assembly of +10.5 m body extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045		0	0		0	0.00		5	0		0	0	0.00
S1-D116	Assembly of +0 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	470	44	20680	474.31	44	20869.64	470	31	14570	474.31	17	17	8063.27
S1-D117	Assembly of +1.5 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	665	24	15960	653.51	28	18298.38	665	19	12635	653.51	16	16	10456.22
S1-D118	Assembly of +3 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	910	13	11830	893.36	16	14293.81	910	18	16380	893.36	15	15	13400.44
S1-D119	Assembly of +4.5 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	1170	7	8190	1143.94	4	4575.76	1170	17	19890	1143.94	2	2	2287.88
S1-D120	Assembly of +6 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	1450	6	8700	1382.12	6	8292.72	1450	13	18850	1382.12	10	10	13821.19
S1-D121	Assembly of +7.5 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	1650	5	8250	1637.03	4	6548.14	1650	14	23100	1637.03	9	9	14733.31
S1-D122	Assembly of +9 m leg extension for Dead-End Tower Type "D2" as per dwg. 505573-4622-43DD-0045, per leg	1970	1	1970	1943.62	2	3887.24	1970	8	15760	1943.62	3	3	5830.86
Assembly of Dead-End Tower Type "E1" - Weights Agreed														
S1-D123	Assembly of Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004	26323	15	394845	27300.84	14	382211.72	25341	29	734889	26023	28	28	728632.71
S1-D124	Assembly of +4.5 m body extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004	8643	0	0	8650.35	0	0.00	8643	3	25929	8650.33	2	2	17300.67
S1-D125	Assembly of +10.5 m body extension for Dead-End Tower Type "E1" as per dwg. 505573-4622-43DD-0045	13302	0	0	13536.03	0	0.00	13302	6	79812	13536.76	4	4	54147.03
S1-D126	Assembly of +0 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	633	28	17724	646.48	28	18101.39	633	24	15192	646.98	13	13	8410.71
S1-D127	Assembly of +1.5 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	900	15	13500	905.88	13	11776.40	900	9	8100	905.88	8	8	7247.02
S1-D128	Assembly of +3 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	1090	5	5450	1081.38	2	2162.75	1090	8	8720	1093.74	11	11	12031.19
S1-D129	Assembly of +4.5 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	1422	5	7110	1429.71	5	7148.57	1422	29	41238	1428.36	31	31	44279.08
S1-D130	Assembly of +6 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	1620	2	3240	1621.47	3	4864.40	1620	26	42120	1621.45	28	28	45400.50
S1-D131	Assembly of +7.5 m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	1957	2	3914	1963.76	0	0.00	1957	16	31312	1963.74	16	16	31419.86
S1-D132	Assembly of +9m leg extension for Dead-End Tower Type "E" as per dwg. 505573-3612-43DD-0004, per leg	2265	3	6795	2289.83	4	9159.34	2265	4	9060	2291.25	5	5	11456.27
Total:			1815	12870292		1781	13014060.63		3377	16086737		3027	3050	21072716.79

Total Bid number of Towers: 3237
 Total Bid Weight (kg): 28,957,029
 Total Final Number of Towers: 3223
 Total Final Weight (kg): 34,086,777