



Report:  
015800BZCZ00001\_PRDE

Report:  
Annex C: Structural Checks – Remaining Deck structure with monopile piece – Beams Check – Consequence Factor: High

Date:  
12/08/2019

# 1 Beams Check – High Consequence Factor : Frame Code Check

Description : Capacity Manager

## 1.1 ver\_travi\_high.run(1) : Frame Code Check

Description : AISC Load and Resistance Factor Design 2005

General options

Code AISC LRFD 15th  
 Resistance Factor Tension 0.9  
 Resistance Factor Compression 0.9  
 Resistance Factor Bending 0.9  
 Resistance Factor Shear 0.9  
 Resistance Factor Torsion 0.9  
 Use Chapter F12.1 false  
 Exclude torsion false  
 Purge position results false

### 1.1.1 ver\_travi\_high.run(1) : Member Result Full

#### 1.1.1.1 ver\_travi\_high.run(1) : Aisc Member Result

#### ver\_travi\_high.run(1) : Aisc Member Result

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)
- Run : ver\_travi\_high.run(1)
- Worst LoadCase per Member
- Selected SubCheck per Member
- Worst Position along Member

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	Mcz	J
	Cw	frnw	frvw						
Bm51	LC1_HC_125	0.0	0.00	OK	0.10	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.040	0.096	0.013	0.084	0.000	0.000	0.000	0.000	110.254
	110.254	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4	4	4	4	1	4	1	0.204716
	-13.5154	-4.30249	-0.316504	0	0	1.00714	1	1905.95	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.37508	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	525.702	0.0257093	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm52	LC1_HC_125	0.0	1.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.041	0.093	0.010	0.084	0.000	0.000	0.000	0.000	110.254
	110.254	0	0.499698	0.0637363	0.483333	0	0	0.99999	275000
	2.1e+08	4	4	4	4	1	4	1	0.204619
	-10.1921	-4.30954	-0.317571	0	0	1.00538	1	1905.95	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.3589	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	525.702	0.0193876	59.0505	29.4577	1.74543e-07



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Member	LoadCase	Phase	Position	Status	Uftot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	2.24924e-08	0	0						
Bm57	LC1_HC_125	0.0	0.00	OK	0.10	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.040	0.096	0.013	0.084	0.000	0.000	0.000	0.000	110.254
	110.254	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4	4	4	4	1	4	1	0.204712
	-13.5154	-4.30261	-0.316808	0	0	1.00714	1	1905.95	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.37508	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	525.702	0.0257093	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm58	LC1_HC_125	0.0	1.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.041	0.093	0.010	0.084	0.000	0.000	0.000	0.000	110.254
	110.254	0	0.499698	0.0637363	0.483333	0	0	0.99999	275000
	2.1e+08	4	4	4	4	1	4	1	0.204893
	-10.2036	-4.30974	-0.31768	0	0	1.00538	1	1905.95	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.35902	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	525.702	0.0194094	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm59	LC4_HC_075	0.0	0.97	OK	0.14	ufShear	Geom OK	AISC member	ver_travi_high.run(1)
	0.141	0.080	0.028	0.052	0.000	0.000	0.000	0.000	112.321
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.969335	275000
	2.1e+08	2	2	4.075	4.075	1	4.075	1	1
	-48.833	0.591103	1.22551	0	0	1.00645	1.01746	7623.81	2845.35
	1147.3	1	1	969.13	232294	999.958	239683	1	969.13
	232294	3.8105	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	872.217	0.0559872	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm60	LC1_HC_125	0.0	0.97	OK	0.14	ufShear	Geom OK	AISC member	ver_travi_high.run(1)
	0.141	0.079	0.028	0.051	0.000	0.000	0.000	0.000	112.321
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.969335	275000
	2.1e+08	2	2	4.075	4.075	1	4.075	1	1
	-48.8524	0.588911	-1.22314	0	0	1.00645	1.01747	7623.81	2845.35
	1147.3	1	1	969.13	232294	999.958	239683	1	969.13
	232294	3.81266	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	872.217	0.0560095	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm61	LC4_HC_075	0.0	0.97	OK	0.14	ufShear	Geom OK	AISC member	ver_travi_high.run(1)
	0.141	0.080	0.028	0.052	0.000	0.000	0.000	0.000	112.321
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.969335	275000
	2.1e+08	2	2	4.075	4.075	1	4.075	1	1
	-48.8328	-0.592592	-1.22525	0	0	1.00645	1.01746	7623.81	2845.35
	1147.3	1	1	969.13	232294	999.958	239683	1	969.13
	232294	3.81082	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	872.217	0.055987	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm62	LC1_HC_125	0.0	0.97	OK	0.14	ufShear	Geom OK	AISC member	ver_travi_high.run(1)
	0.141	0.079	0.028	0.051	0.000	0.000	0.000	0.000	112.321
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.969335	275000
	2.1e+08	2	2	4.075	4.075	1	4.075	1	1
	-48.8526	-0.587421	1.22339	0	0	1.00645	1.01747	7623.81	2845.35



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Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	1147.3	1	1	969.13	232294	999.958	239683	1	969.13
	232294	3.81234	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	872.217	0.0560096	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm79	LC1_HC_125	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2522	1.7931	-1.04424	0	0	1.01163	1.03179	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84156	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0397594	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm80	LC4_HC_075	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.085	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.24	1.78915	1.03959	0	0	1.01163	1.03177	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.83996	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0397328	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm81	LC4_HC_075	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2837	1.81176	-1.03697	0	0	1.01165	1.03185	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84415	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0398281	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm82	LC1_HC_125	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.013	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2956	1.81573	1.04185	0	0	1.01166	1.03187	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84572	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0398539	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm83	LC1_HC_125	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2523	1.79309	-1.04453	0	0	1.01163	1.03179	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84157	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0397597	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm84	LC4_HC_075	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.085	0.020	0.066	0.000	0.000	0.000	0.000	120.816



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Member	LoadCase	Phase	Position	Status	UftTot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2398	1.78917	1.0393	0	0	1.01162	1.03177	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.83995	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0397325	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm85	LC4_HC_075	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.012	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2839	1.81125	-1.03708	0	0	1.01165	1.03185	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84405	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0398285	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm86	LC1_HC_125	0.0	0.00	OK	0.09	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.013	0.086	0.020	0.066	0.000	0.000	0.000	0.000	120.816
	120.816	0	0.499698	0.0637363	0.483333	0	0	1e-05	275000
	2.1e+08	4.38321	4.38321	4.38321	4.38321	1	4.38321	1	1
	-18.2958	1.81523	1.04196	0	0	1.01166	1.03187	1587.26	592.395
	1147.3	1	1	510.073	122261	996.797	238926	1	510.073
	122261	1.84563	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	459.066	0.0398543	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm99	LC1_HC_125	0.0	0.30	OK	0.24	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.011	0.235	0.023	0.212	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.30001	275000
	2.1e+08	2	2	4	4	1	4	1	1
	-8.16131	1.24923	0.608165	0	0	1.00301	1.0364	2721.81	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.58098	0	0	0.814114	3.0515	16.6213	2	5.24755
	108.57	1	5.34	166.221	179.281	0.0455225	14.9592	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm100	LC1_HC_125	0.0	0.70	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.011	0.233	0.022	0.211	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.69999	275000
	2.1e+08	2	2	4	4	1	4	1	1
	-7.81093	1.23802	0.606997	0	0	1.00288	1.03478	2721.81	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.58473	0	0	0.814114	3.0515	16.6607	2	5.24755
	108.57	1	5.34	166.221	179.281	0.0435681	14.9947	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm101	LC1_HC_125	0.0	0.30	OK	0.24	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.011	0.235	0.023	0.212	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.30001	275000
	2.1e+08	2	2	4	4	1	4	1	1
	-8.16075	1.24924	0.608163	0	0	1.00301	1.0364	2721.81	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.58098	0	0	0.814114	3.0515	16.6213	2	5.24755
	108.57	1	5.34	166.221	179.281	0.0455194	14.9591	4.72279	2.03549e-08



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	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	1.98619e-09	0	0						
Bm102	LC1_HC_125	0.0	0.70	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.011	0.233	0.022	0.211	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.69999	275000
	2.1e+08	2	2	4	4	1	4	1	1
	-7.81093	1.23797	0.607003	0	0	1.00288	1.03478	2721.81	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.58474	0	0	0.814114	3.0515	16.6608	2	5.24755
	108.57	1	5.34	166.221	179.281	0.0435681	14.9947	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm103	LC1_HC_125	0.0	0.30	OK	0.34	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.014	0.341	0.000	0.340	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.30001	275000
	2.1e+08	4	2	4	4	1	4	1	1
	-0.150506	1.44489	-0.941288	0	0	1.00022	1.00065	680.452	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.08364	0	0	0.814114	3.0515	11.3926	2	5.24755
	108.57	1	5.34	166.221	179.281	0.000839496	10.2533	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm104	LC1_HC_125	0.0	0.70	OK	0.34	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.014	0.341	0.000	0.340	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.69999	275000
	2.1e+08	4	2	4	4	1	4	1	1
	-0.150506	1.44488	0.941296	0	0	1.00022	1.00065	680.452	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.08364	0	0	0.814114	3.0515	11.3926	2	5.24755
	108.57	1	5.34	166.221	179.281	0.000839498	10.2533	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm105	LC1_HC_125	0.0	0.70	OK	0.34	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.014	0.341	0.000	0.341	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.69999	275000
	2.1e+08	4	2	4	4	1	4	1	1
	-0.153959	1.4473	-0.941981	0	0	1.00023	1.00066	680.452	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.08345	0	0	0.814114	3.0515	11.3906	2	5.24755
	108.57	1	5.34	166.221	179.281	0.000858759	10.2516	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm106	LC1_HC_125	0.0	0.30	OK	0.34	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.014	0.341	0.000	0.341	0.000	0.000	0.000	0.000	238.963
	119.482	0	0.498783	0.103273	1.17757	0	0	0.30001	275000
	2.1e+08	4	2	4	4	1	4	1	1
	-0.154096	1.44731	0.941985	0	0	1.00023	1.00066	680.452	232.372
	440.149	1	1	199.201	124459	311.771	194791	1	199.201
	124459	1.08345	0	0	0.814114	3.0515	11.3906	2	5.24755
	108.57	1	5.34	166.221	179.281	0.000859526	10.2516	4.72279	2.03549e-08
	1.98619e-09	0	0						
Bm135	LC1_HC_125	0.0	1.00	OK	0.11	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.064	0.111	0.001	0.111	0.000	0.000	0.000	0.000	174.031
	174.031	0	0.5	0	0	0	0	0.99999	275000
	2.1e+08	4	4	4	4	1	4	1	1
	1.09805	-6.08521	0.0414061	0	0	1	1	2496.23	221.005



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Report:  
Annex C: Structural Checks – Remaining Deck structure with monopile piece – Beams Check – Consequence Factor: High

Date:  
12/08/2019

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	888.112	1	1	193.821	60015.9	627.913	194431	1	193.821
	60015.9	2.3395	0	0	1.11787	5.08715	63.0177	2	14.1665
	280.5	1	5.34	284.625	799.301	0.00137376	56.716	12.7499	1.12277e-07
	1.22772e-08	0	0						
Bm136	LC1_HC_125	0.0	0.00	OK	0.11	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.051	0.115	0.005	0.109	0.000	0.000	0.000	0.000	174.031
	174.031	0	0.5	0	0	0	0	1e-05	275000
	2.1e+08	4	4	4	4	1	4	1	1
	-1.82112	-6.03922	0.0357433	0	0	1.00073	1.00831	2496.23	221.005
	888.112	1	1	193.821	60015.9	627.913	194431	1	193.821
	60015.9	2.33721	0	0	1.11787	5.08715	63.0177	2	14.1665
	280.5	1	5.34	284.625	174.439	0.0104399	56.716	12.7499	1.12277e-07
	1.22772e-08	0	0						
Bm137	LC4_HC_075	0.0	0.00	OK	0.11	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.051	0.111	0.001	0.110	0.000	0.000	0.000	0.000	174.031
	174.031	0	0.5	0	0	0	0	1e-05	275000
	2.1e+08	4	4	4	4	1	4	1	1
	1.11288	-6.07853	0.0409464	0	0	1	1	2496.23	221.005
	888.112	1	1	193.821	60015.9	627.913	194431	1	193.821
	60015.9	2.33849	0	0	1.11787	5.08715	63.0177	2	14.1665
	280.5	1	5.34	284.625	799.301	0.00139232	56.716	12.7499	1.12277e-07
	1.22772e-08	0	0						
Bm138	LC1_HC_125	0.0	0.00	OK	0.11	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.051	0.115	0.005	0.110	0.000	0.000	0.000	0.000	174.031
	174.031	0	0.5	0	0	0	0	1e-05	275000
	2.1e+08	4	4	4	4	1	4	1	1
	-1.84744	-6.03964	0.0391253	0	0	1.00074	1.00843	2496.23	221.005
	888.112	1	1	193.821	60015.9	627.913	194431	1	193.821
	60015.9	2.33749	0	0	1.11787	5.08715	63.0177	2	14.1665
	280.5	1	5.34	284.625	174.439	0.0105907	56.716	12.7499	1.12277e-07
	1.22772e-08	0	0						
Bm139	LC1_HC_125	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.235738
	-0.090007	3.26998	-0.00474278	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64469	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000507336	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm140	LC4_HC_075	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.238817
	-0.094307	3.26437	0.00471997	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64458	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000531574	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm141	LC4_HC_075	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107



Report:  
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Report:  
Annex C: Structural Checks – Remaining Deck structure with monopile piece – Beams Check – Consequence Factor: High

Date:  
12/08/2019

Member	LoadCase	Phase	Position	Status	Uftot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	Mcz	J
	Cw	frnw	frvw						
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.214268
	-0.0865652	3.26655	-0.00469488	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64459	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000487936	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm142	LC1_HC_125	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.228	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.21443
	-0.0877618	3.27226	0.00478436	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64472	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000494681	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm143	LC1_HC_125	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.238559
	-0.0955117	3.27003	-0.00480945	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64471	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000538364	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm144	LC4_HC_075	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.235953
	-0.0888093	3.26431	0.00465339	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64456	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000500585	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm145	LC4_HC_075	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.227	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.219957
	-0.089375	3.26661	-0.00477397	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.6446	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000503774	14.4867	3.322	1.37183e-08
	8.92055e-10	0	0						
Bm146	LC1_HC_125	0.0	1.00	OK	0.23	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.028	0.228	0.000	0.227	0.000	0.000	0.000	0.000	102.107
	102.107	0	0.498619	0.0938811	1.17202	0	0	0.99999	275000
	2.1e+08	1.5	1.5	1.5	1.5	1	1.5	1	0.220016
	-0.0905752	3.27232	0.00486355	0	0	1.00003	1	2821.64	254.254
	351.714	1	1	197.123	154128	288.232	225364	1	197.123
	154128	1.64473	0	0	0.714484	2.82056	16.0963	2	3.69111
	87.12	1	5.34	133.056	177.411	0.000510539	14.4867	3.322	1.37183e-08



Report:  
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Report:  
Annex C: Structural Checks – Remaining Deck structure with monopile piece – Beams Check – Consequence Factor: High

Date:  
12/08/2019

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	ufShear	ufH1	ufH1ax	ufH1mo	ufH2	ufH2ax	ufH2mo	ufH3	sldTens
	sldComp	D/t	lzc/lz	h/tw(rel.)	web/Afc	bl/bs	OutOfBounds	relpos	Fy
	E	KLy	KLz	a	L	Kz	Lb	Cmy	Cmz
	Pr	Mry	Mrz	Mrymax	Mrzmax	B1y	B1z	Pey	Pez
	PnD2	FISldC	WebSldC	PnE3	FcrE3	PnE4	FcrE4	Q	PnE
	FcrAxial	Cb	FISldF	WebSldF	Lp	Lr	Mny	Sect. F.	Mnz
	Vnz	Cv	kv	Vny	Pc	Pr/Pc	Mcy	McZ	J
	Cw	frnw	frvw						
	8.92055e-10	0	0						
Bm147	LC1_HC_125	0.0	1.00	OK	0.62	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.320	0.622	0.007	0.615	0.000	0.000	0.000	0.000	41.1506
	86.4164	0	0.499742	0.0726496	0.51	0	0	0.99999	275000
	2.1e+08	4.45477	4.45477	2.12132	2.12132	1	2.12132	1	1
	-17.511	94.254	0.0329305	0	0	1.00305	1.00845	5758.29	2089.88
	2070.75	1	1	1367.78	181645	1925.09	255655	1	1367.78
	181645	2.20392	0	0	2.50718	0	170.507	2	83.4467
	297	1	5.34	990	1231.01	0.014225	153.456	75.102	4.9131e-07
	1.71213e-07	0	0						
Bm148	LC4_HC_075	0.0	1.00	OK	0.62	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.320	0.620	0.007	0.613	0.000	0.000	0.000	0.000	41.1506
	86.4164	0	0.499742	0.0726496	0.51	0	0	0.99999	275000
	2.1e+08	4.45477	4.45477	2.12132	2.12132	1	2.12132	1	1
	-16.8445	94.0573	-0.0328795	0	0	1.00293	1.00813	5758.29	2089.88
	2070.75	1	1	1367.78	181645	1925.09	255655	1	1367.78
	181645	2.20418	0	0	2.50718	0	170.507	2	83.4467
	297	1	5.34	990	1231.01	0.0136835	153.456	75.102	4.9131e-07
	1.71213e-07	0	0						
Bm149	LC1_HC_125	0.0	1.00	OK	0.62	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.320	0.622	0.007	0.614	0.000	0.000	0.000	0.000	41.1506
	86.4164	0	0.499742	0.0726496	0.51	0	0	0.99999	275000
	2.1e+08	4.45477	4.45477	2.12132	2.12132	1	2.12132	1	0.572549
	-17.4853	94.2533	0.0176804	0	0	1.00305	1	5758.29	2089.88
	2070.75	1	1	1367.78	181645	1925.09	255655	1	1367.78
	181645	2.20392	0	0	2.50718	0	170.507	2	83.4467
	297	1	5.34	990	1231.01	0.0142041	153.456	75.102	4.9131e-07
	1.71213e-07	0	0						
Bm150	LC4_HC_075	0.0	1.00	OK	0.62	ufH1	Geom OK	AISC member	ver_travi_high.run(1)
	0.320	0.620	0.007	0.613	0.000	0.000	0.000	0.000	41.1506
	86.4164	0	0.499742	0.0726496	0.51	0	0	0.99999	275000
	2.1e+08	4.45477	4.45477	2.12132	2.12132	1	2.12132	1	0.572533
	-16.8188	94.0567	-0.0176591	0	0	1.00293	1	5758.29	2089.88
	2070.75	1	1	1367.78	181645	1925.09	255655	1	1367.78
	181645	2.20418	0	0	2.50718	0	170.507	2	83.4467
	297	1	5.34	990	1231.01	0.0136626	153.456	75.102	4.9131e-07
	1.71213e-07	0	0						