 <p>GeniE V7.9-04</p>	<p>Report: 015800BZCZ00001_PRDE</p>	<p>Report: Annex C: Structural Checks – Monopile – Vertical Configuration – Tubular members Check</p>	<p>Date: 12/08/2019</p>
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1 Tubular Members Check : Frame Code Check

Description : Capacity Manager

1.1 ver_monopalo.run(1) : Frame Code Check

Description : ISO19902 2007

General options

Code	ISO 19902
CapendIncluded	true
UseCommentaryA13	true
Resistance Factor, Tension	1.05
Resistance Factor, Compression	1.18
Resistance Factor, Bending	1.05
Resistance Factor, Shear	1.05
Resistance Factor, Pipe Exposed To External Pressure	1.25
Resistance Factor, Joint, Yield Stress	1.05
Resistance Factor, Joint	1.05
Resistance Factor, Joint, Brace utilization	1.17
Y-Joint Axial Force Factor C1	25
X-Joint Axial Force Factor C1	20
K-Joint Axial Force Factor C1	14
All Joints Moment Factor C1	25
Y-Joint Axial Force Factor C2	11
X-Joint Axial Force Factor C2	22
K-Joint Axial Force Factor C2	43
All Joints Moment Factor C2	43
Brace Utilization, Cut-off value	0
X-Joint in Tension, Qu formula	ISO 19902
Azimuthal Tolerance Angle	5
Ind. Brace Can Distance	false
Joint Geometric Limits	Not checked

General options

Code	EN 1993-1-1
GammaM0	1
GammaM1	1
Method1	true
NationalAnnex	Standard

1.1.1 ver_monopalo.run(1) : Member Result Full

1.1.1.1 ver_monopalo.run(1) : EN199311 Member Result

Empty table - no objects of this type



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1.1.1.2 ver_monopalo.run(1) : ISO 19902 Member Result

ver_monopalo.run(1) : ISO 19902 Member Result

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)

- Run : ver_monopalo.run(1)
- Worst LoadCase per Member
- Selected SubCheck per Member
- Worst Position along Member

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.2-2)	(13.2-4)	Euler	(13.2-12)	(13.2-17)	(13.2-19)	(13.3-2)	(13.3-2ax)	(13.3-2mo)
	(13.3-7)	(13.3-7ax)	(13.3-7mo)	(13.3-8)	(13.3-8ax)	(13.3-8mo)	(13.2-31)	(13.4-12)	(13.4-12ax)
	(13.4-12mo)	(13.4-19)	(13.4-19ax)	(13.4-19mo)	(13.4-20)	(13.4-20ax)	(13.4-20mo)	(13.4-21)	D/t
	thk(m)	relpos	D	t	fy	E	Nx	My	Mz
	V	Mv,t	oa	ot	ft	oc	fc	fyc	fxe
	ob,y	ob,z	ob,yS	ob,zS	fb	taub	taut	p	oh
	fh	fhe	KLy	KLz	Cm,y	Cm,z	Lr	fe,y	fe,z
	ot,c	oc,c	ox	ft,h	fb,h	fc,h			
Bm5	LC1_HIGH	0.0	0.16	OK	0.09	(13.2-2)	Geom OK	ISO19902 member	ver_monopalo.run(1)
	0.095	0.000	0.000	0.000	0.000	0.000	0.095	0.095	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	75
	0.02	0.160849	1.5	0.02	345000	2.1e+08	2893.38	0	0
	0	0	31114.5	31114.5	345000	0	294997	341803	1.68e+06
	0	0	0	0	376755	0	0	0	0
	32853.3	32853.3	28.6	28.6	0	0	28.6	693905	693905
	0	0	0	345000	376755	294997			
Bm5_Inner	LC1_HIGH	0.0	0.16	OK	0.13	(13.2-2)	Geom OK	ISO19902 member	ver_monopalo.run(1)
	0.128	0.000	0.000	0.000	0.000	0.000	0.128	0.128	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30
	0.0254	0.160849	0.762	0.0254	265000	2.1e+08	1904.74	0	0
	0	0	32405.7	32405.7	265000	0	151535	265000	4.2e+06
	0	0	0	0	348767	0	0	0	0
	167506	205333	28.6	28.6	0	0	28.6	172059	172059
	0	0	0	265000	348767	151535			

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1.1.1.3 ver_monopalo.run(1) : ISO 19902 Cone Result

ver_monopalo.run(1) : ISO 19902 Cone Result

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)

- Run : ver_monopalo.run(1)
- Worst LoadCase per Member
- Selected SubCheck per Member
- Worst Position along Member

Member	LoadCase	Phase	Position	Status	UfTot	Formula	GeomCheck	SubCheck	Run
	(13.6-10)	(13.6-13)	(13.6-14)	(13.6-18)	(13.6-21)	(13.6-22)	HoopBuckl	Alpha	relpos
	Ds	tc	fy_c	Dj	t	fy	Ps	Ms	oa,eq
	oa,c	ob,c	ob,jt	ob,jc	oa,t	ob,t	oh,t	oh,c	omaxt
	omaxc	oh,jt	oh,jc	fxc	fxe	fhe	fh	fyc	
Bm5	LC1_HIGH	0.0	0.48	OK	0.09	(13.6-13)	Geom OK	ISO19902 cone	ver_monopalo.run(1)
	0.000	0.094	0.000	0.000	0.000	0.000	0.000	2.86224	0.475534
	1.5	0.02	345000	1.5	0.02	345000	1978.02	0	21297.2
	21270.7	0	8882.12	8882.12	24175.4	0	4710.45	4710.45	33057.6
	30179.3	0	0	341778	1.6779e+06	0	0	0	