



Report:
015800BZCZ00001_PRDE

Report:
Annex C: Structural Checks – Bridge – Beams Check – Consequence Factor: High

Date:
12/08/2019

1 Beams Check – High Consequence Factor : Frame Code Check

Description : Capacity Manager

1.1 ver_high_new.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_high_new.run(1) : Member Result Full

1.1.1.1 ver_high_new.run(1) : Aisc Member Result

ver_high_new.run(1) : Aisc Member Result

- Sorted by Member (Ascending)
- Then sorted by LoadCase (Ascending)
- Run : ver_high_new.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						
Bm8	LC4_HC_075	0.0	0.03	Failed(uf)	1.32	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	1.322	0.564	0.291	0.274	0.000	0.000	0.000	0.000	84.6199
	84.6199	0	0.499698	0.0637363	0.483333	0	0	0.0325633	275000
	2.1e+08	3.07	3.07	3.07	3.07	1	3.07	1	1
	-201.629	-15.4288	1.36893	0	0	1.06646	1.20043	3235.6	1207.59
	1147.3	1	1	770.864	184771	1015.5	243409	1	770.864
	184771	1.99603	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	693.778	0.290624	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm16	LC1_HC_125	0.0	0.03	Failed(uf)	1.30	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	1.296	0.566	0.277	0.289	0.000	0.000	0.000	0.000	84.6199
	84.6199	0	0.499698	0.0637363	0.483333	0	0	0.0325633	275000
	2.1e+08	3.07	3.07	3.07	3.07	1	3.07	1	1
	-192.423	-16.7068	1.24319	0	0	1.06323	1.18955	3235.6	1207.59
	1147.3	1	1	770.864	184771	1015.5	243409	1	770.864
	184771	1.91365	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	693.778	0.277356	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	frw						
	2.24924e-08	0	0						
Bm69	LC1_HC_125	0.0	1.00	Failed(uf)	1.02	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.032	1.024	0.716	0.307	0.000	0.000	0.000	0.000	129.339
	81.5673	0	0.499779	0.0753846	0.510417	0	0	0.99999	275000
	2.1e+08	4	2	4	4	1	4	0.355703	1
	427.227	5.9395	1.94137	0	0	1	1	750.764	1194.36
	662.75	1	1	458.021	190050	538.235	223334	1	458.021
	190050	3.42716	0	0	1.50413	6.99149	31.2854	2	16.0084
	94.05	1	5.34	316.8	596.475	0.716252	28.1568	14.4076	4.50433e-08
	6.4748e-09	0	0						
Bm70	LC4_HC_075	0.0	0.00	OK	0.96	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.020	0.964	0.651	0.314	0.000	0.000	0.000	0.000	129.339
	81.5673	0	0.499779	0.0753846	0.510417	0	0	1e-05	275000
	2.1e+08	4	2	4	4	1	4	0.429789	1
	388.042	-1.73136	-4.20154	0	0	1	1	750.764	1194.36
	662.75	1	1	458.021	190050	538.235	223334	1	458.021
	190050	3.2824	0	0	1.50413	6.99149	31.2854	2	16.0084
	94.05	1	5.34	316.8	596.475	0.650559	28.1568	14.4076	4.50433e-08
	6.4748e-09	0	0						
Bm73	LC1_HC_125	0.0	0.00	OK	0.49	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.114	0.486	0.212	0.274	0.000	0.000	0.000	0.000	111.43
	111.43	0	0.499793	0.0811189	0.536134	0	0	1e-05	275000
	2.1e+08	2	4	4	4	1	4	1	1
	-79.3243	-12.3641	0.181643	0	0	1.01562	1.18689	5156.87	503.768
	829.95	1	1	416.468	137995	663.269	219771	1	416.468
	137995	2.67619	0	0	1.74587	7.45439	45.8307	2	23.1487
	120.698	1	5.34	392.7	374.821	0.211632	41.2476	20.8339	6.37515e-08
	1.50699e-08	0	0						
Bm74	LC4_HC_075	0.0	0.48	OK	0.83	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	0.829	0.286	0.031	0.254	0.000	0.000	0.000	0.000	110.254
	110.254	0	0.499698	0.0637363	0.483333	0	0	0.47501	275000
	2.1e+08	2	4	4	4	1	4	1	1
	64.6819	-14.274	0.373384	0	0	1	1	7623.81	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.73052	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	1032.57	0.0626417	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm78	LC1_HC_125	0.0	0.52	OK	0.89	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	0.893	0.316	0.034	0.281	0.000	0.000	0.000	0.000	110.254
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.52499	275000
	2.1e+08	2	2	4	4	1	4	1	1
	70.8934	-16.1892	-0.216085	0	0	1	1	7623.81	2845.35
	1147.3	1	1	969.13	232294	1000.82	239889	1	969.13
	232294	2.61569	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	1032.57	0.0686573	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm97	LC4_HC_075	0.0	0.97	Failed(uf)	1.29	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	1.289	0.558	0.275	0.283	0.000	0.000	0.000	0.000	84.6199
	84.6199	0	0.499698	0.0637363	0.483333	0	0	0.967437	275000
	2.1e+08	3.07	3.07	3.07	3.07	1	3.07	1	1
	-190.779	-16.4618	1.16325	0	0	1.06266	1.18763	3235.6	1207.59



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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						
	1147.3	1	1	770.864	184771	1015.5	243409	1	770.864
	184771	1.92929	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	693.778	0.274986	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm98	LC1_HC_125	0.0	0.97	Failed(uf)	1.33	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	1.331	0.574	0.292	0.281	0.000	0.000	0.000	0.000	84.6199
	84.6199	0	0.499698	0.0637363	0.483333	0	0	0.967437	275000
	2.1e+08	3.07	3.07	3.07	3.07	1	3.07	1	1
	-202.666	-15.4495	1.61799	0	0	1.06682	1.20167	3235.6	1207.59
	1147.3	1	1	770.864	184771	1015.5	243409	1	770.864
	184771	1.99555	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	693.778	0.292119	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm113	LC4_HC_075	0.0	0.00	OK	0.31	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.084	0.307	0.065	0.242	0.000	0.000	0.000	0.000	120.928
	120.928	0	0.499678	0.0644231	0.515385	0	0	1e-05	275000
	2.1e+08	4.98206	4.98206	4.98206	4.98206	1	4.98206	1	0.387525
	-74.989	-17.9144	1.25459	0	0	1.03865	1	2015.43	741.538
	1438.8	1	1	638.713	122078	1234.4	235933	1	638.713
	122078	2.50904	0	0	2.00372	10.8705	93.9598	2	46.3496
	211.2	1	5.34	686.4	574.841	0.130452	84.5638	41.7146	2.57216e-07
	4.79741e-08	0	0						
Bm116	LC1_HC_125	0.0	1.00	OK	0.29	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.083	0.294	0.068	0.226	0.000	0.000	0.000	0.000	120.928
	120.928	0	0.499678	0.0644231	0.515385	0	0	0.99999	275000
	2.1e+08	4.98206	4.98206	4.98206	4.98206	1	4.98206	1	0.408221
	-78.2003	-16.8358	1.13351	0	0	1.04037	1	2015.43	741.538
	1438.8	1	1	638.713	122078	1234.4	235933	1	638.713
	122078	2.42599	0	0	2.00372	10.8705	93.9598	2	46.3496
	211.2	1	5.34	686.4	574.841	0.136038	84.5638	41.7146	2.57216e-07
	4.79741e-08	0	0						
Bm131	LC4_HC_075	0.0	1.00	OK	1.00	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.031	0.995	0.713	0.283	0.000	0.000	0.000	0.000	129.339
	81.5673	0	0.499779	0.0753846	0.510417	0	0	0.99999	275000
	2.1e+08	4	2	4	4	1	4	0.353848	1
	425.01	-5.72033	1.65763	0	0	1	1	750.764	1194.36
	662.75	1	1	458.021	190050	538.235	223334	1	458.021
	190050	3.4235	0	0	1.50413	6.99149	31.2854	2	16.0084
	94.05	1	5.34	316.8	596.475	0.712536	28.1568	14.4076	4.50433e-08
	6.4748e-09	0	0						
Bm132	LC1_HC_125	0.0	0.00	OK	0.97	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.019	0.974	0.653	0.321	0.000	0.000	0.000	0.000	129.339
	81.5673	0	0.499779	0.0753846	0.510417	0	0	1e-05	275000
	2.1e+08	4	2	4	4	1	4	0.43102	1
	389.532	1.64097	-4.36028	0	0	1	1	750.764	1194.36
	662.75	1	1	458.021	190050	538.235	223334	1	458.021
	190050	3.28551	0	0	1.50413	6.99149	31.2854	2	16.0084
	94.05	1	5.34	316.8	596.475	0.653058	28.1568	14.4076	4.50433e-08
	6.4748e-09	0	0						
Bm134	LC1_HC_125	0.0	0.52	OK	0.83	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	0.833	0.283	0.032	0.251	0.000	0.000	0.000	0.000	110.254



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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	frw						
	110.254	0	0.499698	0.0637363	0.483333	0	0	0.52499	275000
	2.1e+08	2	4	4	4	1	4	1	1
	65.3054	-14.18	0.329299	0	0	1	1	7623.81	711.337
	1147.3	1	1	584.114	140008	1000.82	239889	1	584.114
	140008	2.77408	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	1032.57	0.0632455	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm151	LC4_HC_075	0.0	1.00	OK	0.46	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.107	0.462	0.209	0.252	0.000	0.000	0.000	0.000	111.43
	111.43	0	0.499793	0.0811189	0.536134	0	0	0.99999	275000
	2.1e+08	2	4	4	4	1	4	1	1
	-78.4944	-11.2159	0.250173	0	0	1.01546	1.18457	5156.87	503.768
	829.95	1	1	416.468	137995	663.269	219771	1	416.468
	137995	2.54124	0	0	1.74587	7.45439	45.8307	2	23.1487
	120.698	1	5.34	392.7	374.821	0.209418	41.2476	20.8339	6.37515e-08
	1.50699e-08	0	0						
Bm152	LC4_HC_075	0.0	0.48	OK	0.89	ufShear	Geom OK	AISC member	ver_high_new.run(1)
	0.888	0.311	0.034	0.277	0.000	0.000	0.000	0.000	110.254
	55.1269	0	0.499698	0.0637363	0.483333	0	0	0.47501	275000
	2.1e+08	2	2	4	4	1	4	1	1
	69.9976	-15.9976	-0.167759	0	0	1	1	7623.81	2845.35
	1147.3	1	1	969.13	232294	1000.82	239889	1	969.13
	232294	2.60936	0	0	1.7645	10.0688	65.6117	2	32.7308
	161.7	1	5.34	554.4	1032.57	0.0677897	59.0505	29.4577	1.74543e-07
	2.24924e-08	0	0						
Bm224	LC4_HC_075	0.0	0.50	OK	0.16	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.002	0.161	0.021	0.140	0.000	0.000	0.000	0.000	108.551
	108.551	0	0.499678	0.0644231	0.515385	0	0	0.5	275000
	2.1e+08	4.47214	4.47214	4.47214	4.47214	1	4.47214	1	0.600004
	-27.7766	11.8579	-2.24818e-14	0	0	1.01123	1	2501.24	920.282
	1438.8	1	1	747.84	142936	1241.51	237292	1	747.84
	142936	1.15385	0	0	2.00372	10.8705	93.9598	2	46.3496
	211.2	1	5.34	686.4	673.056	0.0412694	84.5638	41.7146	2.57216e-07
	4.79741e-08	0	0						
Bm225	LC1_HC_125	0.0	0.50	OK	0.16	ufH1	Geom OK	AISC member	ver_high_new.run(1)
	0.002	0.162	0.021	0.140	0.000	0.000	0.000	0.000	108.551
	108.551	0	0.499678	0.0644231	0.515385	0	0	0.5	275000
	2.1e+08	4.47214	4.47214	4.47214	4.47214	1	4.47214	1	1
	-28.5847	11.8618	0	0	0	1.01156	1.03206	2501.24	920.282
	1438.8	1	1	747.84	142936	1241.51	237292	1	747.84
	142936	1.15385	0	0	2.00372	10.8705	93.9598	2	46.3496
	211.2	1	5.34	686.4	673.056	0.04247	84.5638	41.7146	2.57216e-07
	4.79741e-08	0	0						