

Job Name: TEST - COPY

Licensed To: SPLM: Edit company name in <system>\company.txt

STRESSES EXTENDED REPORT: Stresses on Elements

CASE 5 (SUS) W+P1

Sy

0.720945643

Node Axial Stress Bending Str Torsion Str Hoop Stress KPa Max Stress Intensity SIF/Index I SIF/Index C Code Stress KI Allowable Stress Ratio % Piping Code

Piping Code: B31.4 = B31.4 -2016, March 31, 2016

B31.4 Legend: R - Restrained U - Unrestrained W - Inland Waterways

CODE STRESS CHECK PASSED : LOADCASE 5 (SUS) W+P1

Highest Stresses: (KPa)

Ratio (%): 90.1 @Node 557
 Code Stress: 312982.4 Allowable Stress: 347495.8
 Axial Stress: 145112.0 @Node 557
 Bending Stress: 13501.0 @Node 520
 Torsion Stress: 0.0 @Node 528
 Hoop Stress: 312982.4 @Node 557
 Max Stress Intensity: 219384.4 @Node 552

510	0	0	0	0	0	0	0	0	0	0	0	0	B31.4/U
520	0	0	0	0	0	0	0	0	0	0	0	0	B31.4/U
520	96287.6	13501	0	215243.4	164171.3	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/R
528	96287.6	4686.6	0	215243.4	155356.9	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/R
528	96287.6	4686.6	0	215243.4	155356.9	1.401	1.168	215243.4	347495.8	61.9	61.9	215243.4	B31.4/R
529	96828.5	1340.2	0	215243.4	151469.7	1.401	1.168	215243.4	347495.8	61.9	61.9	215243.4	B31.4/R
529	96828.5	1878	0	215243.4	0	1.401	1.168	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
530	97022.7	0	0	215243.4	0	1.401	1.168	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
530	97022.7	0	0	215243.4	0	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
540	96938.3	0	0	215243.4	0	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
540	96938.3	0	0	215243.4	0	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
540	96938.3	0	0	215243.4	0	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
550	96745.1	0	0	215243.4	0	1	1	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
550	96745.1	0	0	215243.4	0	1.575	1.85	215243.4	347495.8	61.9	61.9	215243.4	B31.4/U
552	145112	296.7	0	312982.4	219384.4	1.575	1.85	312982.4	347495.8	90.1	90.1	312982.4	B31.4/R
557	145112	0	0	312982.4	219087.7	1	1	312982.4	347495.8	90.1	90.1	312982.4	B31.4/R
552	145112	296.7	0	312982.4	219384.4	1.575	1.85	312982.4	347495.8	90.1	90.1	312982.4	B31.4/R
555	145112	0	0	312982.4	219087.7	1	1	312982.4	347495.8	90.1	90.1	312982.4	B31.4/R

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STRESSES EXTENDED REPORT: Stresses on Elements

CASE 6 (EXP) L6=L2-L5

Node Axial Stress: Bending Str Torsion Str Hoop Stress Max Stress SIF/Index I SIF/Index C Code Stress: Allowable † Ratio % Piping Code

Piping Code: B31.4 = B31.4 -2016, March 31, 2016

B31.4 Legend: R - Restrained U - Unrestrained W - Inland Waterways

CODE STRESS CHECK PASSED : LOADCASE 6 (EXP) L6=L2-L5

Highest Stresses: (KPa)

Ratio (%): 0.0 @Node 520
 Code Stress: 0.0 Allowable Stress: 589144.9
 Axial Stress: 0.0 @Node 550
 Bending Stress: 0.0 @Node 520
 Torsion Stress: 0.0 @Node 528
 Hoop Stress: 0.0 @Node 520
 Max Stress Intensity: 0.0 @Node 520

Node	Axial Stress	Bending Str	Torsion Str	Hoop Stress	Max Stress	SIF/Index I	SIF/Index C	Code	Stress: Allowable	† Ratio %	Piping Code
510	0	0	0	0	0	0	0	0	0	0	0 B31.4/U
520	0	0	0	0	0	0	0	0	0	0	0 B31.4/U
520	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
528	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
528	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
529	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
529	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
530	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
530	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
540	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
540	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
550	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	589144.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	491405.9	0	0 B31.4/U
557	0	0	0	0	0	1	1	0	491405.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	491405.9	0	0 B31.4/U
555	0	0	0	0	0	1	1	0	491405.9	0	0 B31.4/U

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STRESSES EXTENDED REPORT: Stresses on Elements

CASE 7 (EXP) L7=L3-L5

Node Axial Stress: Bending St Torsion Str Hoop Stress Max Stress SIF/Index I SIF/Index C Code Stress: Allowable † Ratio % Piping Code

Piping Code: B31.4 = B31.4 -2016, March 31, 2016

B31.4 Legend: R - Restrained U - Unrestrained W - Inland Waterways

CODE STRESS CHECK PASSED : LOADCASE 7 (EXP) L7=L3-L5

Highest Stresses: (KPa)

Ratio (%): 0.0 @Node 520
 Code Stress: 0.0 Allowable Stress: 589144.9
 Axial Stress: 0.0 @Node 552
 Bending Stress: 0.0 @Node 520
 Torsion Stress: 0.0 @Node 528
 Hoop Stress: 0.0 @Node 520
 Max Stress Intensity: 0.0 @Node 520

510	0	0	0	0	0	0	0	0	0	0	0 B31.4/U
520	0	0	0	0	0	0	0	0	0	0	0 B31.4/U
520	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
528	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
528	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
529	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
529	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
530	0	0	0	0	0	1.868	1.557	0	589144.9	0	0 B31.4/U
530	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
540	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
540	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
550	0	0	0	0	0	1	1	0	589144.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	589144.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	491405.9	0	0 B31.4/U
557	0	0	0	0	0	1	1	0	491405.9	0	0 B31.4/U
552	0	0	0	0	0	2.1	2.466	0	491405.9	0	0 B31.4/U
555	0	0	0	0	0	1	1	0	491405.9	0	0 B31.4/U

