

MecaStack Revision History

<u>Version</u>	<u>Date</u>	<u>Revision Description</u>
5.2.5.0	4/1/2014	Additional responses spectrum corrections, load combinations weren't rolling up correctly.
5.2.5.1	4/11/2014	Corrections to ASME STS-1 Vzcr values displayed when metric units selected.
5.2.5.2	4/27/2014	Cone stiffening rings were not pulling the correct stiffener.
5.2.5.3	5/1/2014	Response spectrum foundation reactions not working, fix in 5250 created a secondary problem.
5.2.5.4	5/6/2014	Forgot to remove a stop point for debugging before compiling, created windows error.
5.2.5.5	5/30/2014	Adjusted wire fope areas to match those in Wire Rope Users Manual. In Fix K in ASME STS-1 allowable
5.2.5.6	8/15/2014	Struc Flg wt included gussets, even when no gussets applicable. Fix PT for 4 guy wires, and variable dia
5.2.5.7	9/12/2014	Fix bug with Ext Att Conc when Dead and non-Dead loads exist, and increase # entries from 15 to 50
5.2.5.8	9/12/2014	Fix bug with Ext Att Conc when Dead and non-Dead loads exist, and increase # entries from 15 to 50
5.2.5.9	9/25/2014	Fix unit displayed on Cylinder wt, fix units on Manual wt, fix Att Conc Wt bug to consider 25+ entries.
5.2.6.0	10/28/2014	Revise IBC references to be 2009 or 2012 as applicable, Adjust Double guy lug calculation for Hs/2, Expand ext attachments concentrated limits for arrays.
5.2.6.1	11/7/2014	Fixed Sccs which was too high by a factor of 10. The error was only in the value being displayed, internally it was ok. Reworked the response spectrum analysis, it had some problems with support reactions not matching Simplified it and fixed some problems. Fixed but with Operating loads being applied at 30 deg dir for self stacks.
5.2.6.2	11/19/2014	Revamped the Response Spectrum Analysis again, corrected the way responses combined using SRSS
5.2.6.3	11/21/2014	Fixed BS6399 problem where Altitude and Base Elevation was being interchanged.
5.2.6.4	11/24/2014	Fixed some flawed logic for ovaling ring check, it finds Smax required, but didn't check Vco<Vzm
5.2.6.5	12/11/2014	Added manual entry for damping pad value so user can send file to Meca to get appropriate value.
5.2.6.6	1/6/2015	Address problem when security server is down that single user will still work.
5.2.6.7	1/19/2015	Fix problem with OD determination when ID specified, correct unit conversion problem with EN 1991-1-4
5.2.6.8	2/5/2015	Fix problem with diameters sequence when attachment on a cone.
5.2.6.9	2/18/2015	Fix problem with diameter sequence for ID. Also fixed DeadMan Elevation in reactions when non-zero.
5.2.7.0	3/2/2015	In CICIND code, fix fk to utilize Stress Factor entered for each load case, rather than using 1.1 always
5.2.7.1	3/13/2015	Correct A/D for STS variable Dia stack, correct he for BS and Indian codes, fix Cfo for EN Piping
5.2.7.2	3/30/2015	Increase number of external load entries to 50.
5.2.7.3	5/28/2015	Fix ability to enter stiffener properties manually, Fix damping menu when CICIND and None is selected.
5.2.7.4	6/30/2015	Update NBC to 2010, Chg Baseplate w/ gusset to use 0.6*Fy for bending allowable
5.2.7.5	7/1/2015	Revise ASME STS-1 stiff rings to use qz rather than total wind load. Correct custom material for Rings.
5.2.7.6	7/8/2015	Added ability to do lift per API-560 ASD, Fixed bug where Large cyl for cone was using Cone Thk
5.2.7.7	7/16/2015	For ASME STS-1 stiff rings if no Qz is entered (Such as manual press) use wind pressure entered instead
5.2.7.8	7/28/2015	Fix single guy lug for intl use of comma instead of decimal, fix weld Fw for metric lookup in StrucFlg.
5.2.7.9	8/18/2015	Fix cone results sometimes not displaying red when fail, and fix turnbuckle changing to 2.75x24
5.2.8.0	8/30/2015	Allow user to enter Euro Piping Cf manually or calculate manual
5.2.8.1	9/2/2015	Corrections to ovaling ring check.

5.2.8.2	9/24/2015	Correct Structural Flange to print ratio for local shell stress
5.2.8.3	10/27/2015	Fix Ovaling Vibraton 'Lined' criteria, fix L&P's for larger qty on graphics
5.2.8.4	11/6/2015	Baseplate settings get lost when you leave the form.
5.2.8.5	12/9/2015	Baseplate standard button not working.
5.2.8.6	12/17/2015	Fix NBCC wind for rigid struc use $C_g = 2$ rather than 1. Dynamic criteria $0.25 < Nf < 1$, $H > 120m$, $H/D > 4$
5.2.8.7	12/29/2015	Set vertical seismic load to zero for UBC, Fixe metric M_x/M_y value in Baseplate bottom plate.
5.2.8.8	1/14/2016	Fix error in graphics with damping pad washer and steel washer showing incorrectly.
5.2.8.9	1/14/2016	Auto add nodes directly above and below guy wire attach when no guylug entered to capture worst case SR
5.2.9.0	2/24/2016	Correct units on V_{zcr} ft/s and m/s for ASME STS-1, also add a $V_{upr} = 1.2 * V_{zcr}$ for reference.
		Fix some bugs with ASCE 7-10 with notation, and the total wind load for ASCE 7-10 and Aerodynamic Damping for 7-10
		Correct major problem where 2nd set of deadman was taken as the same location as the first set of deadmen.
5.2.9.1	3/1/2016	Fix bug with cone elevations being incorrect, fix elev units for response spectrum for metric option,
		use ambient properties when lift analysis performed.
5.2.9.2	3/8/2016	Adjust defl for IS 6533 to remove dynamic component (Works only for self sup right now)
5.2.9.3	3/11/2016	Fix bug with guy wire attachment top elevation not always working correctly for single lug.
5.2.9.4	3/23/2016	NBC 2010: Was convinced that dynamic should only apply to > 60 m struc and $Nf < 1Hz$ (Not $H/D > 4$)
5.2.9.5	4/11/2016	Fix BS 6399 Shape Factor C_{pe} , which should have been doubled when $D > 1m$.