

ANSYS Workbench QA Notice**ERROR NO:**

QAWB2012-03

Keywords:

nCODE

DESIGNLIFE

Description of Error:

This QA Notice describes defects in nCode DesignLife reported in the noted nCode Customer Critical Communications that may affect ANSYS nCode DesignLife users. Corrections for these defects are included in ANSYS nCode DesignLife beginning with ANSYS nCode DesignLife R13 SP1

The following 3 Customer Critical Communications are released for ANSYS nCode DesignLife.

Reference ID: DTLIB-508

Description: Using StressGradients = True on the FE import analysis group causes incorrect results for strain-life EN analysis engine when the input EntityDateType = Stress. By default, StressGradients =False is used for the import analysis group. Note this issue does not affect StressGradients correction in the SN analysis (stress-life).

Workaround: None

Additional Information:

Initial Versions Affected:

DesignLife 5.0

Fixed Version:

This issue was fixed in patch 9 for nCode 7.0 ISR1 (will also be included in version 8.0)

Reference ID: DESIGNLIFE-196

Description: Reading Abaqus ODB files where the VARIABLE = ALL has been used in the Abaqus input request ELEMENT OUTPUT, VARIABLE = ALL, POSITION = NODES results in Von Mises stresses being read instead of the appropriate stress tensor, and hence incorrect

results. VARIABLE = ALL is not the default behaviour for ELEMENT OUTPUT in Abaqus.

Workaround: Use the PRESELECT for example ELEMENT OUTPUT, VARIABLE = PRESELECT, POSITION = NODES.

Additional Information:

Initial Versions Affected:

DesignLife 5.0

Fixed Version:

This issue was fixed in patch 9 for nCode 7.0 ISR1 (will also be included in version 8.0)

Reference ID: DESIGNLIFE-198

Description: ANSYS element types SHELL181 and SHELL281 give zero total strain results on the Top Shell surface from ANSYS rst file when creep or plastic strain results are present. Results for stress from Top Shell are correct and all results from Bottom Shell surface are correct. If using non-linear strain results from SHELL181 or SHELL281, uncompressed results from DesignLife will show zero damage on Top Shell and a contour plot of the worst case fatigue results will show only results from the bottom surface.

Workaround: None

Additional Information:

Initial Versions Affected:

DesignLife 5.1 nCode 6.0 DesignLife 5.1 ISR 1 nCode 6.0 ISR1 nCode 7.0 nCode 7.0 ISR1 DesignLife 5.0 ISR1 DesignLife 5.0

Fixed Version:

This issue was fixed in patch 9 for nCode 7.0 ISR1 (will also be included in version 8.0)

Typical GUI Path(s)

Other Comments:

First Incorrect Version:

3

See description

Corrected In:

See description

Suggested User Action For Running on Uncorrected Version:

See description

Author Signature:

Ray Browell 8/30/2012

Reviewed By QA:

Bill Bryan 9/10/2012

Approval:

Dave Conover 8/30/2012