***Imp/Export Smoke Testing  
AUTOPIPE 11.0.0.14***

**PXF**

|  |  |
| --- | --- |
| **Test Scope** | PXF Import |
| **Performed By** | Shafqat Farooq |
| **Date** | 22nd Nov 2016 |
| **Machine** | WIN-64-SP1 |
| **Description** | Covers the smoke test scenarios executed on PXF Import module. |
| **Models** | QA324A, QA324B, QA324C, QA324D |
| **Testing Status** | Fail (Model QA324D Import fails) |
| **AutoPIPE version** | 11.0.0.14 |
| **Benchmark** | 9.6.0.19 |

**Procedure:**

* Import a PXF file in AutoPIPE latest version. An NTL file and \*.dat will also be created in the working directory.
* Analyze the model (Analyze>Analyze All)
* Generate \*.rpt report (Tools>Model Input Listing)
* Compare \*.rpt generated in latest build against the benchmark model \*.rpt

**Feature Tested:**

* Import a PXF file and check that the import is done without errors
* Generate input listing of the model after PXF import
* Analyze the model and check that the analysis is done without any errors
* Compare the input listing file
* Compare the NTL file
* Perform the following conditions while importing PXF file in latest version.

**Conditions:**

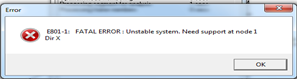
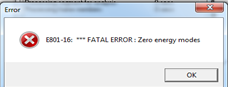
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PXF File** | **System Dialog** | **Import AutoPLANT dialog** | **Expected DAT File State** | **Result** |
| QA324A | piping code = B31.3  Vertical Axis = Z | Append seg name to pt = No  add anchor at free ends = No  sp. gr. Of contents = 1.23  use MAP = Yes  pipe material = n/a  P1 = 150 lb/in2  T1 = 170 °F | numeric pt names only (1, 2, 3…)  no anchors at free ends  all pipes assigned A53-A  Z is vertical axis  import added data is ok | OK |
| QA324B | piping code = B31.1  Vertical Axis =Y  in/out units =MMETRIC  ambient = 15 °C | sp. gr. Of contents = 0.89  use MAP = No  pipe material = HC  P1 = 19.33 Kg/cm2  T1 = 75°C | std API pt names (A00, A01, A02…)  anchors at free ends  Y is vertical axis  import added data is ok | OK  (numeric pt. names) |
| QA324C | piping code = NC | Defaults (Append seg name to pt = YES  Add anchor at free ends = No) | NC piping code is ok  Y is vertical axis | OK |
| QA324D | piping code = B31.4  Vertical Axis = Z | Defaults (Append seg name to pt = No  add anchor at free ends = No) | Z is vertical axis  frame lies on Z-X plane  check: pt/beam (& i/j orientation) layout, beta angle, rigid ends, end releases, and x-sec & mat’l assigns | OK |

**Result:** (Benchmark: 9.6.0.19)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model** | **NTL generated** | **RPT generated** | **RPT compared**  **(latest against benchmark)** | **NTL compared**  **(latest against benchmark)** | **Pass/Fail** |
| **QA324A** | OK | OK | OK | OK | PASS |
| **QA324B** | OK | OK | OK | OK | PASS |
| **QA324C** | OK | OK | OK | OK | PASS |
| **QA324D** | OK | Not OK | Not OK | OK | FAIL |

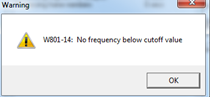
**QA324A**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :** [OK]
* **Load Case Description:** Load case HY missing
* **Error messages while importing the model QA324A and then analyzing**

** **

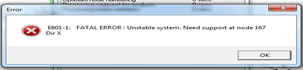
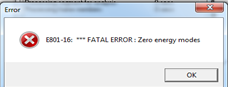
**QA324B**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt)** : [OK]
* **Point names vary:** A00 -> 2, A01 -> 6 …..
* **Load Case Description:** Load case HY missing
* **Error messages while importing the model QA324B and then analyzing**

****

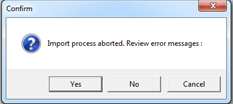
**QA324C**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt)** : [OK]
* **Material Library:** ASME2007 is now written as ASME2015
* **Point names vary:** A00 -> 22, A01 -> 20….
* **Load Case Description:** Load case HY missing
* **Error messages while importing the model QA324C and then analyzing**

  ****

**QA324 D**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :** [Not OK]
* RPT was not created
* **Error message while importing the model QA324D**

****