**NPOF 2.4 Bug fixes and updates list**

**Bug fix list**

* NPOF 2.3 would not display PCB shape on orientation screen for RFC36RFG
* S-Parameters was set to “Every Article” as a default in R2.3
* Core frame window was not selectable in R2.3 for P800s
* N/C has been added to the pop-up on the pinlist page to describe how this line type will be interpreted (was missing from R2.3)
* Correct threshold at which P2000 changes from MS to CPW
* Minimum row pitch that requires factory input for 2 x N pad arrangement was incorrect.
* Y step distance was missing in the Chart page’s Die Orientation figure.
* Probe head summary data, on core SMT component count was incorrect if customer overrode the quantity.
* WSS notice for P2000 should not be displayed for new Probe Head order, instead, should be enabled for new PCB (New Design, Customer (New).
* Maximum RF speed limit before engineering approval was 88 GHz, corrected to 81 GHz.
* Core frame window was selectable when planarization spacer was used. (they are not compatible)
* Fixed Multi DUT ISS display setup issue.
* 1st P01 pad was missing in the Single DUT Chart when there was no GND pad in the design.

**NPOF Enhancements & Edits**

* General:
  + All Pyrana & Kodachi products have been removed.
  + Disable custom ISS selection and page when Core is P800S/P2000/P4000
* Cover Page:
  + Remove "RMA required" message.
  + For new Probe Head, PCB, Custom ISS, enable options as “New Article”, “Revision”, “Derivative”. Prompt for material disposition plan if “Revision” selected.
* Pinlist page:
  + Add warning message when pad name missing.
  + Update probe head line match warning setting based on core type when CPW is used. Remove duplicated formatting.
  + Add color indicator when PCB CBI assignment is missing and Customer Existing PCB is used.
  + Remove Risetime (ps) from RF Line type details and add length match group column (#) to Pinlist

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* DUT page:
  + Added warning when pad size is equal or larger than pad pitch
* Probe\_Head Page:
  + Added options for core box label
  + Updated RFC’s CPW CBI consumption estimation
  + Renamed “Probe Head Notes” to “Probe Head Notes (Instructions to Core Designer)”
  + Simplified exiting options text and added “Manual: Unprobed pads with next die align marks” for alignment option
  + Modify Core Box Label option “Data Matrix” to “Bar Code” to comply with existing process
  + Added warning when core frame is rotated (not 0 degree)
* PCB Page:
  + RFC36RFG config card size has been corrected to 4.5x4.5 (was previously listed as 4.5x7)
  + Added design requirement info when core frame is rotated (not 0 degree) for PCB type Cable Interface or ATE
* Orientation Page:
  + Highlight orientation approval entry
* Custom ISS Page:
  + Rename Thru-# to Thru\_# to be able to use [define name] function for load value list used for Thru.
  + Thru has a separate load value list and will auto update based on if the Thru has load or not.
  + Display total load resistor count and display “Require Engineering Review” if the quantity is above threshold.
  + Add load count by structure type in hidden table
  + With above changes, enable ISS option for loads on un-used thru’s RF pads (instead of just grounding them)
  + Update ISS data label font size to prevent text from overlapping
  + Add a message and coloring load value field if Load structure selected but load value is missing.
  + Correct Active area
  + Added warning message if through connection is not defined in Thru table if Thru is used in the ISS configuration table (Thru-0 only, as a reminder).
  + Added minimum ISS pad pitch warning

**NPOF instruction document**

* Correct worksheet sequence to match with NPOF
* Update figure to match with NPOF
* Remove AC line’s width info
* Add “single” to frequency for TFI to match test setup.
  + 
* Pinlist Worksheet, PCB section
  + Add below:
  + 
* Graphical user interface, application

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* Update Probe head options instruction:
  + Text

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* Update label instruction
  + A screenshot of a computer

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* Update ISS instruction
  + A picture containing text

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  + Graphical user interface, text, application, email

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* Replace Form Factor to FormFactor
* Remove Pyrana related instructions
* In Cover page, add New design options for Probe Head, PCB, Custom ISS. Provide definition.
  + Graphical user interface, text

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  + Text

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