Manabi – FEED

Attributes for tracking 3D model progress - Piping

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1. **For CAE**
2. Attributes based on “Pipeline”
3. All fitting and pipe to start with default color
4. *Stress Critical* lines to be Magenta (fitting to remain as default color if possible)
5. *Stress Critical Approved* lines to be Blue (fitting to remain as default color if possible)
6. Lines *Updated per HAZOP P&ID* to be Yellow (fitting to remain as default color if possible)

Note: The attribute name is in italics

1. **Procedure for Piping**
2. Model pipe per IFA P&ID’s
3. For Stress Critical Lines, mark the *Stress Critical* Attribute (the line should now be Magenta)
4. After a Stress Critical Line has been Approved, mark the *Stress Critical Approved* attribute (the line should now be blue)
5. After the pipe has been updated per Issue for HAZOP P&ID’s, mark the *Updated per HAZOP P&ID* attribute. (the line should now be yellow) This signals that the line is complete and ready for MTO. Note the following:

* When the HAZOP P&ID’s are received, the stress critical lines should be updated first.
* If the HAPOP P&ID’s causes a significant change to a Stress Critical line, the line should be updated and marked back to Stress Critical (Magenta). Stress will then need to review again. After Stress comments have been incorporated, the line can be marked *Updated per HAZOP P&ID’s*
* A Stress Critical line should not be marked *Updated per HAZOP P&ID’s* unless the stress review is approved.