**Purpose**

To incorporate the Flange Rating DLL into MSD project

**Current Status of MSD**

* Metallurgy
* Design Pressure (psi(a))
* Estimated Design Temperature (C)
* Pipe Size (in)

**Required Status**

* Metallurgy
* Design Pressure (in psi(g))
* Design Temperature (in Fahrenheit)
* Diameter (in)
* GoverningCodeType (ASME Section I)

**Findings/Process to Include**

1. Include Flange class dll by installing nugget package
2. Add new Delegate for Flange Rating in **PipeVM**.
3. Convert Design Pressure in psi(g) and Estimated Design Temperature in F,

there is a unit converter/Get Value function that may come handy.

1. Add GoverningCodeType
2. Look into functions of CalculationHandler class in dll.
3. Flange Rating will be obtained from FCDOutputColln.

Known Issues

Don’t know how metallurgy is coming back

May be some relation with the line 2161 in MSDPresentationVM

Don’t know how design pressure change makes h2pp to change.

Some connection of DesignPressure is with MSDEquipOtherVM.cs

Some changes in MSDEquipOtherVM and PipeVM made flange ratings to calculated once.

Some connection with the

1. I flange rating dll is working fine, we have to calculate flange rating when design pressure and metallurgy is given.

For flangefacing

Do some changes in File MSDMainVM.cs line no. 38

Line no. 2579