Dim strSize As String

' In our gunline assembly model template, we have the default feed line set at 4"

' If the user selects to have the 6" line, we need to do a component replace to put the 6" line into the assembly

If GUNLINE\_SIZE = 4 in Then

strSize = "4"

Else

strSize = "6"

Component.Replace("ANSI A53B 4 - Gunline:1", TEMPLATE\_PATH & "Gunline Assy\ANSI A53B 6 - Gunline.ipt", True)

End If

' This code finds the part we need for the gunline feed, and makes a copy of it in our new project folder

' It uses the methodology where we basically open the template file, and then do a "Save As" operation to get our new file

Dim strTemplateFile, strNewFile As String

strTemplateFile = TEMPLATE\_PATH & "Gunline Assy\ANSI A53B " & strSize & " - Gunline.ipt"

strNewFile = PROJECT\_PATH & PROJECT\_ID & "\Gunline Assy\ANSI A53B " & strSize & " - Gunline - " & PROJECT\_ID & ".ipt"

If System.IO.File.Exists(strNewFile) = False Then

Dim oRefDoc As Document

' This code will set a reference to the template file, which will be used to do the "Save As" operation in the following line of code

oRefDoc = ThisApplication.Documents.ItemByName(strTemplateFile)

oRefDoc.SaveAs(strNewFile, False)

End If

' Once we have the new part in our Gunline Assy project folder, we need to replace the reference to the old part with the new one

Dim oAsmDoc As AssemblyDocument

oAsmDoc = ThisApplication.Documents.ItemByName(PROJECT\_PATH & PROJECT\_ID & "\Gunline Assy\Gunline Assy - " & PROJECT\_ID & ".iam")

oAsmDoc.File.ReferencedFileDescriptors.Item(TEMPLATE\_PATH & "Gunline Assy\ANSI A53B " & strSize & " - Gunline.ipt").ReplaceReference(PROJECT\_PATH & PROJECT\_ID & "\Gunline Assy\ANSI A53B " & strSize & " - Gunline - " & PROJECT\_ID & ".ipt")

' This establishes the constraint that aligns the nozzle assembly with the hole in the tube we just substituted

Constraints.AddMate("Mate:1", "ANSI A53B XS 2-26:1", "Face0",

"ANSI A53B " & strSize & " - Gunline - " & PROJECT\_ID & ":1", "Hole\_Surface",

e1InferredType := InferredTypeEnum.kInferredLine,

e2InferredType := InferredTypeEnum.kInferredLine,

solutionType := MateConstraintSolutionTypeEnum.kAlignedSolutionType)