

```
Option Explicit
Dim PumpEnabled(1 To 3) As Boolean
Dim Sequence(1 To 3) As Integer
Dim PumpControl(1 To 3) As String
Dim VFDStatus(1 To 3) As String
Dim Runtime(1 To 3) As String
Dim Temperature(1 To 3) As String
Dim Pressure(1 To 3) As String
Dim ManualSpeed(1 To 3) As String
```

```
Private Sub btnApply_Click()
    On Error GoTo ErrorHandler
    With Fix32.AWTSCADA
        .CA80_SC_P_EN_1A.F_CV = Abs(CInt(PumpEnabled(1)))
        .CA80_SC_P_EN_1B.F_CV = Abs(CInt(PumpEnabled(2)))
        .CA80_SC_P_EN_1B.F_CV = Abs(CInt(PumpEnabled(3)))
        .CA80_LI_1_SP.F_CV = Abs(CInt(tbStopSetpoint.value))
        .CA80_LI_2_SP.F_CV = Abs(CInt(tbStart1Setpoint.value))
        .CA80_LI_3_SP.F_CV = Abs(CInt(tbStart2Setpoint.value))
        .CA80_LI_4_SP.F_CV = Abs(CInt(tbStart3Setpoint.value))
        .CA80_LI_5_SP.F_CV = Abs(CInt(tbStart4Setpoint.value))
    End With
    btnApply.Enabled = False
Exit Sub
```

```
ErrorHandler:
    MsgBox "ERROR - Unable to apply all changes.", vbExclamation
    btnApply.Enabled = False
Exit Sub
End Sub
```

```
Private Sub btnCancel_Click()
    Unload Me
End Sub
```

```
Private Sub btnOK_Click()
    If btnApply.Enabled Then
        btnApply_Click
    End If
    Unload Me
End Sub
```

```
Private Sub chkboxEnable_Click()
    If PumpEnabled(TabStrip1.value + 1) <> chkboxEnable.value Then
```

```
        PumpEnabled(TabStrip1.value + 1) = chkboxEnable.value
        TabStrip1_Change
        btnApply.Enabled = True
    End If
End Sub
```

```
Private Sub TabStrip1_Change()
    Dim Temp As Integer
    Dim BtnApplyEnabled As Boolean

    BtnApplyEnabled = btnApply.Enabled
    With TabStrip1
        frmNPWPumps.chkboxEnable.value = PumpEnabled(.value + 1)
        frmNPWPumps.tbControl.value = PumpControl(.value + 1)
        frmNPWPumps.tbVFD.value = VFDStatus(.value + 1)
        frmNPWPumps.tbPressure.value = CStr(Pressure(.value + 1))
        frmNPWPumps.tbHours.value = CStr(Runtime(.value + 1))
    End With
    btnApply.Enabled = BtnApplyEnabled
End Sub
```

```
Private Sub tbPressure_Enter()
    Select Case TabStrip1.value
        Case 0
            User.BlockEditAI "CA80_PAH_1A"
        Case 1
            User.BlockEditAI "CA80_PAH_1B"
        Case 2
            User.BlockEditAI "CA80_PAH_1C"
    End Select
End Sub
```

```
End Sub
Private Sub tbHours_Enter()
    Select Case TabStrip1.value
        Case 0
            User.BlockEditAI "CA80_P_1A_TOTAL"
        Case 1
            User.BlockEditAI "CA80_P_1B_TOTAL"
        Case 2
            User.BlockEditAI "CA80_P_1C_TOTAL"
    End Select
End Sub
```

```
End Sub
```

```

Private Sub tbStart1Setpoint_Change()
    Dim InvalidEntry As Boolean

    On Error GoTo ErrorHandler

    InvalidEntry = False

    If IsNumeric(tbStart1Setpoint.value) Then
        If CDbl(tbStart1Setpoint.value) >= 0 And CDbl(tbStart1Setpoint.value) <= 100
Then
            Else
                MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
                InvalidEntry = True
            End If
        Else
            MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
            InvalidEntry = True
        End If
        If InvalidEntry Then
            tbStart1Setpoint.value = Format(Fix32.AWTSCADA.CA80_LI_2_SP.F_CV, "#0")
        End If
        If Not InvalidEntry Then btnApply.Enabled = True

    Exit Sub

```

```

ErrorHandler:
HandleError
End Sub

```

```

Private Sub tbStart2Setpoint_Change()
    Dim InvalidEntry As Boolean

    On Error GoTo ErrorHandler

    InvalidEntry = False

    If IsNumeric(tbStart2Setpoint.value) Then
        If CDbl(tbStart2Setpoint.value) >= 0 And CDbl(tbStart2Setpoint.value) <= 100
Then
            Else
                MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
                InvalidEntry = True
            End If
        Else

```

```

    MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
    InvalidEntry = True
End If
If InvalidEntry Then
    tbStart2Setpoint.value = Format(Fix32.AWTSCADA.CA80_LI_3_SP.F_CV, "#0")
End If
If Not InvalidEntry Then btnApply.Enabled = True

Exit Sub

ErrorHandler:
HandleError
End Sub

Private Sub tbStart3Setpoint_Change()
    Dim InvalidEntry As Boolean

    On Error GoTo ErrorHandler

    InvalidEntry = False

    If IsNumeric(tbStart3Setpoint.value) Then
        If CDbl(tbStart3Setpoint.value) >= 0 And CDbl(tbStart3Setpoint.value) <= 100
Then

            Else
                MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
                InvalidEntry = True
            End If
        Else
            MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
            InvalidEntry = True
        End If
        If InvalidEntry Then
            tbStart3Setpoint.value = Format(Fix32.AWTSCADA.CA80_LI_4_SP.F_CV, "#0")
        End If
        If Not InvalidEntry Then btnApply.Enabled = True

    Exit Sub

ErrorHandler:
HandleError
End Sub

Private Sub tbStartAllSetpoint_Change()
    Dim InvalidEntry As Boolean

```

```

On Error GoTo ErrorHandler

InvalidEntry = False

If IsNumeric(tbStartAllSetpoint.value) Then
    If CDbI(tbStartAllSetpoint.value) >= 0 And CDbI(tbStartAllSetpoint.value) <= 100
Then
        Else
            MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
            InvalidEntry = True
        End If
    Else
        MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
        InvalidEntry = True
    End If
    If InvalidEntry Then
        tbStartAllSetpoint.value = Format(Fix32.AWTSCADA.CA80_LI_5_SP.F_CV,
"#0")
    End If
    If Not InvalidEntry Then btnApply.Enabled = True

Exit Sub

ErrorHandler:
HandleError
End Sub

Private Sub tbStopSetpoint_Change()
    Dim InvalidEntry As Boolean

    On Error GoTo ErrorHandler

    InvalidEntry = False

    If IsNumeric(tbStopSetpoint.value) Then
        If CDbI(tbStopSetpoint.value) >= 0 And CDbI(tbStopSetpoint.value) <= 100 Then

            Else
                MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
                InvalidEntry = True
            End If
        Else
            MsgBox "Invalid Entry.", vbExclamation + vbOKOnly
            InvalidEntry = True
        End If
    End If

```

```
End If
If InvalidEntry Then
    tbStopSetpoint.value = Format(Fix32.AWTSCADA.CA80_LI_1_SP.F_CV, "#0")
End If
If Not InvalidEntry Then btnApply.Enabled = True
```

```
Exit Sub
```

```
ErrorHandler:
HandleError
End Sub
```

```
Private Sub tbVFD_Enter()
    Select Case TabStrip1.value
        Case 0
            User.BlockEditAI "CA80_YAU_P_1A"
        Case 1
            User.BlockEditAI "CA80_YAU_P_1B"
        Case 2
            User.BlockEditAI "CA80_YAU_P_1C"
    End Select
End Sub
```

```
Private Sub UserForm_Initialize()
    Dim Ctr As Integer
    Dim Unknown As String
    Dim Temp As Double
```

```
    On Error GoTo ErrorHandler
    ' Initialize Arrays
    Unknown = "?????"
    For Ctr = 1 To 3
        PumpEnabled(Ctr) = False
        PumpControl(Ctr) = Unknown
        Runtime(Ctr) = Unknown
    Next Ctr
```

```
    With Fix32.AWTSCADA
        PumpControl(1) = .CA80_YIR_P_1A.A_CV
        PumpControl(2) = .CA80_YIR_P_1B.A_CV
        PumpControl(3) = .CA80_YIR_P_1C.A_CV

        PumpEnabled(1) = CBool(.CA80_SC_P_EN_1A.F_CV)
```

```
PumpEnabled(2) = CBool(.CA80_SC_P_EN_1B.F_CV)
PumpEnabled(3) = CBool(.CA80_SC_P_EN_1C.F_CV)
```

```
VFDStatus(1) = .CA80_YAU_P_1A.A_CV
VFDStatus(2) = .CA80_YAU_P_1B.A_CV
VFDStatus(3) = .CA80_YAU_P_1C.A_CV
```

```
Pressure(1) = .CA80_PAH_1A.A_CV
Pressure(2) = .CA80_PAH_1B.A_CV
Pressure(3) = .CA80_PAH_1C.A_CV
```

```
Runtime(1) = .CA80_P_1A_TOTAL.A_CV
Runtime(2) = .CA80_P_1B_TOTAL.A_CV
Runtime(3) = .CA80_P_1C_TOTAL.A_CV
```

```
tbStopSetpoint.value = Format(CDbl(.CA80_LI_1_SP.F_CV), "##0")
tbStart1Setpoint.value = Format(CDbl(.CA80_LI_2_SP.F_CV), "##0")
tbStart2Setpoint.value = Format(CDbl(.CA80_LI_3_SP.F_CV), "##0")
tbStart3Setpoint.value = Format(CDbl(.CA80_LI_4_SP.F_CV), "##0")
tbStartAllSetpoint.value = Format(CDbl(.CA80_LI_5_SP.F_CV), "##0")
```

```
End With
```

```
TabStrip1_Change
```

```
' This statement must be last.
btnApply.Enabled = False
```

```
Exit Sub
```

```
ErrorHandler:
```

```
If Err = -2147204604 Or Err = -2147352567 Then
```

```
    btnApply.Enabled = False
```

```
    MsgBox "Error fetching data. Information displayed may not be correct.",
vbExclamation + vbOKOnly
```

```
    Exit Sub
```

```
Else
```

```
    HandleError
```

```
End If
```

```
End Sub
```