# **OBSERVACIONES**

# MIX\_Regulation\_DO

Diagrama

Descripción generada automáticamente

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| DO\_FUNT | DO\_FUNCT[IOA\_DO\_MIX\_MOVE\_FAST].Assigned | 226 |
|  |  |  |

# SetMaxFlowRateTecJet

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| tecjet | tecjet[TECJET\_1].Option - tecjet[TECJET\_2].Option | 253 |
| PARA | PARA[ParRefInd[TEC\_MAX\_FLOW\_\_PARREFIND]].Value  PARA[ParRefInd[TEC\_2\_MAX\_FLOW\_\_PARREFIND]].Value | 267 |
|  |  |  |

# MIX\_ControlDeviation

Carta

Descripción generada automáticamente con confianza media

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| STOP\_Tripped | STOP\_Tripped[STOPCONDITION\_30231] | 315, 434, 449 |
| MAX\_DU32 | Constante: if (a.StateTimer < (MAX\_DU32-1000)) a.StateTimer += 100L; | 333 |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 337,345, 398  416, |
|  | PARA[ParRefInd[MIX\_CYL\_MAX\_DEVIATION\_\_PARREFIND]].Value | 402 |
| STOP\_Set | STOP\_Set(STOPCONDITION\_30231); | 448 |

# MIX\_PositionDeviation

PowerPoint

Descripción generada automáticamente

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MAX\_DU32 | (MAX\_DU32-1000)) | 478 |
| AO\_FUNCT | AO\_FUNCT[IOA\_AO\_MIX\_GASMIXER\_SETPOINT].Assigned | 488 |
| AI\_I\_FUNCT | AI\_I\_FUNCT[IOA\_AI\_I\_MIX\_GASMIXER\_POS].Assigned | 489 |
| STOP\_Tripped | STOP\_Tripped[STOPCONDITION\_70231] | 495,506 |
| STOP\_Set | STOP\_Set(STOPCONDITION\_70231) | 505 |

# Mixer\_Control\_Release

PowerPoint

Descripción generada automáticamente

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MAX\_DU32 | (MAX\_DU32-1000)) | 556 |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 561 |
| AI\_I\_FUNCT | AI\_I\_FUNCT[LAMBDA\_VOLTAGE].Assigned == ASSIGNED | 564 |
|  |  |  |

# Mixer\_Control\_Release\_Timeout

Tabla

Descripción generada automáticamente con confianza media

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MAX\_DU32 | (MAX\_DU32-1000)) | 649 |
| STOP\_Set | STOP\_Set(STOPCONDITION\_50125) | 682 |
| ReleaseLoadForMixerControl | ELM.ReleaseLoadForMixerControl | 657 |

# Mix\_Read\_MixerSetpointsFromParameters

Diagrama

Descripción generada automáticamente

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 701 |
| PARA | PARA[ParRefInd[MIX\_POWER1A\_\_PARREFIND]].Value | 706 |
|  |  |  |

# Mix\_Sort\_MixerSetpoints

Carta

Descripción generada automáticamente con confianza media

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
|  |  |  |

# Interpolate

Diagrama

Descripción generada automáticamente

# Mix\_Calculate\_Enrichment

Diagrama

Descripción generada automáticamente con confianza baja

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| PARA | PARA[ParRefInd[MIX\_COLD\_STRT\_ENRI\_MEAS\_POINT\_\_PARREFIND]].Value | 926 |
|  | PARA[ParRefInd[MIX\_COLD\_START\_ENRICHMENT\_\_PARREFIND]].Value | 966 |
| T201\_Filtered | ENG.T201\_Filtered | 930 |
| CoolingWaterEngineEntrance\_Available | ENG.CoolingWaterEngineEntrance\_Available | 931 |
| CoolingWaterEngineExit | ENG.CoolingWaterEngineExit.Value | 936 |
| CoolingWaterEngineExit\_Available | ENG.CoolingWaterEngineExit\_Available | 937 |

# Mix\_Calculate\_Setpoint\_For\_Mixer\_Position

Tabla

Descripción generada automáticamente

**Funciones:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| GasTypeBActive | GAS.GasTypeBActive | 1017 |
| PARA | PARA[ParRefInd[Index\_A]].Value | 1019, 1027 |
| MixerOffset | CH4.MixerOffset | 1023 |
|  |  |  |

# Mix\_Calculate\_Ramp\_Position

Diagrama

Descripción generada automáticamente con confianza media

**Funciones:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
|  |  |  |
|  |  |  |

# MIX\_RunningTimeRam

Carta

Descripción generada automáticamente con confianza media

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| PARA | PARA[ParRefInd[MIX\_RUNNING\_TIME\_0\_TO\_100\_PERCENT\_\_PARREFIND]].Value | 1076 |
|  |  |  |

Transit

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| STATE2 | const STATE2 newState | 1102 |
|  |  |  |

No se identificó la definición del tipo de dato STATE2

// Local variables

**static** STATE2 myState[**2**];

//static STATE2 myLastState[2];

**static** DU32 myStateCnt[**2**];

MIX\_SearchLimitLean

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MIXER\_LIMIT\_LEAN | FuncInd = MIXER\_LIMIT\_LEAN; | 1294 |
| STOPCONDITION\_70221 | StopCondInd = STOPCONDITION\_70221; | 1295 |
| STOPCONDITION\_70706 | StopCondInd = STOPCONDITION\_70706; | 1300 |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 1327 |
|  | PARA[ParRefInd[MIX\_SECOND\_MIXER\_\_PARREFIND]].Value | 1335 |
| AO\_FUNCT | (AO\_FUNCT[IOA\_AO\_MIX\_GASMIXER\_SETPOINT].Assigned == ASSIGNED) | 1335 |
| DI\_FUNCT | (DI\_FUNCT[FuncInd].Assigned | 1360 |
| STOP\_Set | STOP\_Set( StopCondInd ) | 1371 |

MIX\_PositionLeanReached

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| STOPCONDITION\_70224 | StopCondInd = STOPCONDITION\_70224; | 1449 |
| STOPCONDITION\_70715 | StopCondInd = STOPCONDITION\_70715 | 1453 |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 1491 |
|  | PARA[ParRefInd[MIX\_SECOND\_MIXER\_\_PARREFIND]].Value | 1499 |
| DI\_FUNCT | (DI\_FUNCT[FuncInd].Assigned | 1360 |
| STOP\_Set | STOP\_Set( StopCondInd ) | 1470 |

MIX\_MoveRich

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| STOPCONDITION\_70236 | StopCondInd = STOPCONDITION\_70236 | 1614 |
| STOPCONDITION\_70713 | StopCondInd = STOPCONDITION\_70713 | 1618 |
| PARA | PARA[ParRefInd[MIX\_OPTION\_LAMBDA\_CONTROL\_\_PARREFIND]].Value | 1644 |
|  | PARA[ParRefInd[MIX\_SECOND\_MIXER\_\_PARREFIND]].Value | 1652 |
| AO\_FUNCT | AO\_FUNCT[IOA\_AO\_MIX\_GASMIXER\_SETPOINT].Assigned | 1652 |
| DI\_FUNCT | (DI\_FUNCT[MIXER\_LIMIT\_RICH].Assigned | 1676 |
| STOP\_Set | STOP\_Set( StopCondInd ) | 1691 |

MIX\_ParallelPositionReached

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MIX\_PARALLEL\_POS\_A\_\_PARREFIND |  | 2671 |
| MIX\_PARALLEL\_POS\_B\_\_PARREFIND |  | 1618 |
| TEC\_FLOW\_SETP\_AT\_10PERCENT\_LOAD\_\_PARREFIND | AT\_10,\_20,30,40\_PERCENT | 2721 |
|  |  |  |

MIX\_MoveIsland

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MIX\_ISLAND\_POS\_A\_\_PARREFIND |  | 2877 |
| MIX\_ISLAND\_POS\_B\_\_PARREFIND |  | 2877 |
| STOP\_Set | STOP\_Set( StopCondInd ) | 2957 |
|  |  |  |

MIX\_Control

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| Active | Librería: GBV.Active | 3327 |
| PsumRelative | ELM.T1E.sec.PsumRelative == 0 | 3329 |
| GasTypeBActive | GAS.GasTypeBActive | 3334 |
| MIX\_P\_T\_FACTOR\_A\_\_PARREFIND | ParIndex = MIX\_P\_T\_FACTOR\_A\_\_PARREFIND | 3371 |
| MIX\_P\_T\_FACTOR\_B\_\_PARREFIND | ParIndex = MIX\_P\_T\_FACTOR\_B\_\_PARREFIND | 3372 |
| stateL1E | HVS.stateL1E != HVS\_L1E\_IS\_ON | 3456 |
| CylinderAverageTemp | CYL.CylinderAverageTemp | 3516 |

MIX\_MoveStart

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| MAIN.Simulation | if (MAIN.Simulation) | 1909 |
|  |  |  |

MIX\_control\_20ms

**Faltantes**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| S200EngineSpeed | ENG.S200EngineSpeed \* 10000 | 4218 |
| NominalSpeed | / (TUR.NominalSpeed / 100) | 4219 |
| GovernorAnalogOutputInternal | **TUR**.GovernorAnalogOutputInternal | 4221 |
| ThrottlePositionPercent | DK.ThrottlePositionPercent | 4243 |
| CLIENT\_VERSION |  |  |
|  |  |  |

MIX\_control\_100ms

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| AI\_R\_U\_FUNCT | AI\_R\_U\_FUNCT[RECEIVER\_TEMP].Assigned | 4511 |
| io\_calculate\_AI\_R\_U\_value |  | 4514 |
| io\_calculate\_AI\_I\_value |  | 4523 |
|  |  |  |

MIX\_control\_1000ms

**Faltantes:**

|  |  |  |
| --- | --- | --- |
| **Nombre** | **Tipo/Descripción** | **Línea** |
| OPTION\_CYLINDER\_MONITORING |  | 5091 |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **FUNCIÓN** | **Variables de entradas** | **Funciones que la usan** |
| MIX\_Regulation\_DO | reg\_mode (USINT) | MIX\_control\_100ms |
| MIX\_StepperMotorControl | MixerIndex (USINT) | MIX\_control\_10ms |
| MIX\_ControlDeviation |  | MIX\_control\_100ms |
| MIX\_PositionDeviation |  | MIX\_control\_100ms |
| Mixer\_Control\_Release |  | MIX\_control\_1000ms |
| Mixer\_Control\_Release\_Timeout |  | MIX\_control\_1000ms |
| Mix\_Read\_MixerSetpointsFromParameters |  | MIX\_init |
| Mix\_Sort\_MixerSetpoints |  | MIX\_init |
| Interpolate | x, x1, x2, y1, y2 (DINT) | MIX\_ParallelPositionReached, MIX\_Control, MIX\_control\_100ms |
| Mix\_Calculate\_Enrichment |  | Mix\_Calculate\_Setpoint\_For\_Mixer\_Position |
| Mix\_Calculate\_Setpoint\_For\_Mixer\_Position | Index\_A, Index\_B (UINT) | MIX\_MoveStart, MIX\_StartPositionReached, MIX\_MoveIdle, MIX\_IdlePositionReached, MIX\_MoveParallel, MIX\_ParallelPositionReached, MIX\_MoveIsland, MIX\_IslandPositionReached, MIX\_control\_100ms |
| Mix\_Calculate\_Ramp\_Position | TargetPosition, ActualPosition | MIX\_MoveParallel, MIX\_MoveIsland |
| MIX\_RunningTimeRamp | Actual, Target, Range (DINT) | MIX\_SearchLimitLean, MIX\_MoveRich, MIX\_MoveStart, MIX\_MoveIdle, MIX\_UnderTest, MIX\_control\_100ms |

Diagrama

Descripción generada automáticamente

Diagrama

Descripción generada automáticamente

Diagrama

Descripción generada automáticamente

Diagrama

Descripción generada automáticamente

**MIX.H**

**En la estructura MIX**\_**protection**, no se encuentra definidos los valores para el tipo de variable t\_protection\_state

Las variables del arreglo PARA, fueron sustituidas por variables globales, para emular las variables globales, ya que no se cuenta con el archivo que contiene sus definiciones.

**Funciones o arreglo aún no definidos**

AI\_I\_FUNCT (Esta dentro de la función MIX\_SystemOff)

DI\_FUNCT (MIX\_SearchLimitLean)

PARA

tecject

**RPB**

**RP**

**STOP\_Tripped (MIX\_control\_20ms)**

**STOP\_Set(STOPCONDITION\_70231);**

**Variables y parámetros creados provisionalmente**

PARA[ParRefInd[MIX\_COLD\_STRT\_ENRI\_MEAS\_POINT\_\_PARREFIND]

ENG.T201\_Filtered (Se creo ENG como instancia para variables globales)

ENG.CoolingWaterEngineEntrance\_Available

Se crea una instancia de variables globales para la librería GAS: **!GAS.GasTypeBActive**

Se crea una estructura para emular el contenido de STATE2