ISM

1. Bleed\_Air\_Detected

## **IN\_BLEED\_AIR\_DETECTED**

**[FI-0001]:** FUEL\_INERTING shall set the **BLEED\_AIR\_DETECTED\_VALID** to Trueand set **BLEED\_AIR\_DETECTED** to the value of ***IN\_BLEED\_AIR\_DETECTED***if the following evaluates to True:  
  
(  
 (***IN\_BLEED\_AIR\_DETECTED\_ACTIVE***is equal to True)  
)

**[FI-0002]:** FMU shall set the **BLEED\_AIR\_DETECTED\_VALID** to Falseand set **BLEED\_AIR\_DETECTED** to False if the following evaluates to True:  
  
(  
 (***IN\_BLEED\_AIR\_DETECTED\_ACTIVE***is equal to False)  
)

1. Ambient\_Air\_Supply

## 

## **IN\_AMBIENT\_AIR\_SUPPLY**

**[FI-0003]:** FUEL\_INERTING shall set the **AMBIENT\_AIR\_SUPPLY\_VALID** to Trueand set **AMBIENT\_AIR\_SUPPLY** to the value of ***IN\_AMBIENT\_AIR\_SUPPLY***if the following evaluates to True:  
  
(  
 (***IN\_AMBIENT\_AIR\_SUPPLY\_ACTIVE***is equal to True)  
)

**[FI-0004]:** FMU shall set the **AMBIENT\_AIR\_SUPPLY\_VALID** to Falseand set **AMBIENT\_AIR\_SUPPLY** to False if the following evaluates to True:  
  
(  
 (***IN\_AMBIENT\_AIR\_SUPPLY\_ACTIVE***is equal to False)  
)

1. Bleed\_Air\_Temp

**[FI-0005]:** FUEL\_INERTING shall set the **BLEED\_AIR\_TEMP\_VALID** to Trueand set **BLEED\_AIR\_TEMP** to the value of ***IN\_BLEED\_AIR\_TEMP***if the following evaluates to True:  
  
(  
 (***IN\_BLEED\_AIR\_TEMP\_ACTIVE***is equal to True)  
)

**[FI-0006]:** FMU shall set the **BLEED\_AIR\_TEMP\_VALID** to Falseand set **BLEED\_AIR\_TEMP** to *DEFAULT\_TEMP\_VALUE* if the following evaluates to True:  
  
(  
 (***IN\_BLEED\_AIR\_TEMP\_ACTIVE***is equal to False)  
)

Oxygen\_CNTRN\_Sensor

**[FI-0007]:** FUEL\_INERTING shall set the **O2\_CNTRN\_SENSOR\_VALID** to Trueand set **O2\_CNTRN\_SENSOR** to the value of ***IN\_O2\_CNTRN\_SENSOR***if the following evaluates to True:  
  
(  
 (***IN\_O2\_CNTRN\_SENSOR\_ACTIVE***is equal to True)  
)

**[FI-0008]:** FMU shall set the **O2\_CNTRN\_SENSOR\_VALID** to Falseand set **O2\_CNTRN\_SENSOR** to False if the following evaluates to True:  
  
(  
 (***IN\_O2\_CNTRN\_SENSOR\_ACTIVE***is equal to False)  
)

1. Nitrogen\_Enriched\_Air\_Sensor

**[FI-0007]:** FUEL\_INERTING shall set the **N2\_CNTRN\_SENSOR\_VALID** to Trueand set **N2\_CNTRN\_SENSOR** to the value of ***IN\_N2\_CNTRN\_SENSOR***if the following evaluates to True:  
  
(  
 (***IN\_N2\_CNTRN\_SENSOR\_ACTIVE***is equal to True)  
)

**[FI-0008]:** FMU shall set the **N2\_CNTRN\_SENSOR\_VALID** to Falseand set **N2\_CNTRN\_SENSOR** to False if the following evaluates to True:  
  
(  
 (***IN\_N2\_CNTRN\_SENSOR\_ACTIVE***is equal to False)  
)

1. Fuel tank level

Monitoring

Control

1. Oxygen\_Concentration\_High
2. Stepper\_motor\_control\_cmd
3. Heat\_Exchange\_Control

Fault Report

OSM