

PROCESS EQUIPMENT FAILURE RESPONSE

ERROR	RESPONSE	ERROR	RESPONSE
MFS#1 communication failure	CONT	MFS#2 communication failure	CONT
MFS#1 in manual mode	CONT	MFS#2 in manual mode	CONT
MFS#1 temp/presr interlock	CONT	MFS#2 temp/presr interlock	CONT
MFS#1 ambient temp too high	CONT	MFS#2 ambient temp too high	CONT
MFS#1 activation error	CONT	MFS#2 activation error	CONT
MFS#1 leak error	CONT	MFS#2 leak error	CONT
MFS#1 fault	CONT	MFS#2 fault	CONT
TCU communication failure	CONT	BOATL communication failure	CONT
TCU in manual mode	CONT	BOATL in manual mode	CONT
TCU fault	CONT	BOATL fault	CONT

If powerfail duration is less than 3 sec, then CONT; else CONT.

TOLERANCE/FAULT RESPONSE

SIGNAL	LO-TOL	HI-TOL	DELAY	DURATION	GOTO(if out-of-tolerance)
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All default tolerance/fault items

IDLE CONDITION

STEP: IDLE COMMENT: IDLE STATE
TEMPL = 600.0 DEGC
TEMPC = 600.0 DEGC
TEMPS = 600.0 DEGC
N2 = 1000. SCCM
BOATSPD = 4.0 IPM
BOATIN = ON

PROCESS RUN SEQUENCE

STEP: STRT COMMENT: RUN: 1ST STEP TIME: 00.00.05
TEMPL = 600.0 DEGC
TEMPC = 600.0 DEGC
TEMPS = 600.0 DEGC
N2 = 1000. SCCM
BOATSPD = 4.0 IPM
BOATOUT = ON

STEP: 0005 COMMENT: BOAT OUT TIME: 00.11.00
TEMPL = 550.0 DEGC
TEMPC = 550.0 DEGC
TEMPS = 550.0 DEGC
BOATSPD = N/C IPM
N2 = 5000. SCCM
BOATOUT = ON
If EVENT = ON then goto 0006

STEP: 0006 COMMENT: LOAD WAFERS TIME: 00.15.00
TEMPL = N/C DEGC
TEMPC = N/C DEGC
TEMPS = N/C DEGC
BOATSPD = N/C IPM
N2 = 3000. SCCM
BOATOUT = ON
If EVENT = ON then goto 0007
SONIC = ON

STEP: 0007 COMMENT: BOAT IN TIME: 00.11.00
TEMPL = N/C DEGC
TEMPC = N/C DEGC
TEMPS = N/C DEGC
BOATSPD = N/C IPM
TCUID = 18
N2 = 5000. SCCM
BOATIN = ON
If EVENT = ON then goto BTIN

STEP: BTIN COMMENT: STABLIZE TIME: 00.10.00
TEMPL = 600.0 DEGC

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    TEMPC = 600.0 DEGC
    TEMPS = 600.0 DEGC
    BOATSPD = N/C    IPM
    TCUID = 18
    N2 = N/C    SCCM
    BOATIN = ON
    RMPRATE = 7.0 D/M
STEP: 0015      COMMENT: RAMP UP          TIME: 00.50.00
    TEMPL = 880.0 DEGC
    TEMPC = 880.0 DEGC
    TEMPS = 880.0 DEGC
    BOATSPD = N/C    IPM
    N2 = N/C    SCCM
    BOATIN = ON
    If EVENT = ON then goto 0020
    RMPRATE = 7.0 D/M
STEP: 0020      COMMENT: DEPOSITION      TIME: 00.40.00
    TEMPL = N/C    DEGC
    TEMPC = N/C    DEGC
    TEMPS = N/C    DEGC
    N2 = N/C    SCCM
STEP: 0022      COMMENT: RAMP DOWN      TIME: 00.40.00
    TEMPL = 700.0 DEGC
    TEMPC = 700.0 DEGC
    TEMPS = 700.0 DEGC
    N2 = N/C    SCCM
    RMPRATE = 7.0 D/M
    If EVENT = ON then goto BTOT
STEP: BTOT      COMMENT: HOLD           TIME: 00.00.00
    TEMPL = 600.0 DEGC
    TEMPC = 600.0 DEGC
    TEMPS = 600.0 DEGC
    N2 = 1000. SCCM
    RMPRATE = 7.0 D/M
    If EVENT = ON then goto 0026
STEP: 0026      COMMENT: BOATOUT       TIME: 00.11.00
    TEMPL = 550.0 DEGC
    TEMPC = 550.0 DEGC
    TEMPS = 550.0 DEGC
    N2 = 4000. SCCM
    BOATOUT = ON
    BOATSPD = 4.0 IPM
    If EVENT = ON then goto 0031
STEP: 0031      COMMENT: UNLOAD WAFERS  TIME: 00.15.00
    TEMPL = N/C    DEGC
    TEMPC = N/C    DEGC
    TEMPS = N/C    DEGC
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N2 = 4000. SCCM
SONIC = ON
If EVENT = ON then goto 0035
BOATOUT = ON
BOATSPD = N/C IPM
STEP: 0035 COMMENT: BOATIN TIME: 00.11.00
TEMPL = N/C DEGC
TEMPC = N/C DEGC
TEMPS = N/C DEGC
N2 = 4000. SCCM
BOATSPD = 4.0 IPM
BOATIN = ON
STEP: 0040 COMMENT: PROCESS ENDS TIME: 00.05.00
TEMPL = 600.0 DEGC
TEMPC = 600.0 DEGC
TEMPS = 600.0 DEGC
N2 = 3000. SCCM
BOATSPD = 4.0 IPM
BOATIN = ON

SPECIAL HOLD STEP

STEP: SHLD COMMENT: SPECIAL HOLD
TEMPL = N/C DEGC
TEMPC = N/C DEGC
TEMPS = N/C DEGC
N2 = 3000. SCCM
BOATIN = ON
SONIC = ON
BOATSPD = 4.0 IPM

ABORT SEQUENCE

STEP: ABRT COMMENT: ABRT: 1ST STEP TIME: 00.15.00
SONIC = ON
TEMPL = 600.0 DEGC
TEMPC = 600.0 DEGC
TEMPS = 600.0 DEGC
BOATIN = ON
BOATSPD = 4.0 IPM
If EVENT = ON then goto ABR1
N2 = 4000. SCCM
STEP: ABR1 COMMENT: ABORT 1 TIME: 00.00.05
TEMPL = 600.0 DEGC
TEMPC = 600.0 DEGC
TEMPS = 600.0 DEGC
N2 = 5000. SCCM

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