

DARKHELM QUICK REFERENCE HANDBOOK (QRH)

TERRAN NAVY · EARTH FEDERATION — all registered classes

Document	TN-QRH-001
Classification	RESTRICTED — Operational Use Only
Companion	Ship Operating Manual (TN-SOM-001) — expanded procedures & the <i>why</i>

How to use — The QRH is the do-list you hold at the console. **NORMAL** checklists are challenge → response. **ABNORMAL** checklists follow the ESMS drill: work the actions top to bottom to **– STATUS** **–**, then review the inoperative systems. Boxed items are **memory (recall)** items — do them before opening the book.

NORMAL CHECKLISTS

NC-01 COLD START — NORMAL (docked, maintenance power)

Expanded procedure: SOM Part PRO-NOR, Cold Start. CAUTION: shore/maintenance power feeds A/B only — MAIN needs the antimatter reactor.

- 1 MAINTENANCE POWER
- DOCK CONFIRM SECURE
- MAINTENANCE POWER REQUEST
- BUSES A/B CONFIRM UP (shore)
- EMERGENCY BUS CONFIRM ALIVE (batt)
- 2 COOLING
- COOLING LOOPS A/B ON
- COOLING AUTO
- LOOP COOLING CONFIRM RUNNING
- 3 REACTOR START
- FUSION RCT A ONLINE (spool)
- FUSION RCT B ONLINE (spool)

ANTIMATTER RCT (MAIN) ONLINE (spool)
SOURCES CONFIRM ONLINE & SPOOLED
BUS MAIN CONFIRM UP

4 AFTER START

AUTO BALANCE ON
BATTERY CHARGE ON
COOLING AUTO / CONFIRM

5 PRE-DEPARTURE

POWER ALLOCATION SET / RECALL PRESET
ESMS NO WARN / NO CAUT

6 DEPARTURE (TRANSFER TO SHIP POWER)

REACTORS A/B/MAIN ... CONFIRM TIED TO BUS
REACTOR OUTPUT UP TO CARRY THE BUS
[CAUTION: transfer to the reactor BEFORE
dropping shore, or the bus will trip]
MAINTENANCE POWER RELEASE (open shore brkr)
BUSES A/B/MAIN CONFIRM UP (no trip)
UNDOCK AS REQUIRED
□ COLD START COMPLETE

NOTE — no maintenance power (abnormal/battery start): AUTO BALANCE OFF; CLOSE reverse ties EMER→A / EMER→B (cooling pumps on battery — EMER BUS→A/B caution normal); light fusion then antimatter; once A/B carried, OPEN the reverse ties; AUTO BALANCE ON. Filed as a PRO-ABN procedure.

NC-02 SECURING — FULL SHUTDOWN (docked, maintenance power)

Expanded procedure: SOM Part PRO-NOR, Securing.

1 DOCK & MAINTENANCE POWER

DOCK CONFIRM SECURE
MAINTENANCE POWER REQUEST
AUTO BALANCE ON (shore-first)

2 STOP REACTORS

MAIN-BUS LOADS (shld/wpn/hyper) .. OFF
ANTIMATTER RCT (MAIN) OFFLINE
FUSION RCT A/B OFFLINE
SOURCES CONFIRM OFFLINE

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3  COLD & DARK
   COOLING ..... OFF (as req)
   MAINTENANCE POWER ..... RELEASE
   EMERGENCY BUS ..... CONFIRM ALIVE (batt)
   □ SHUTDOWN COMPLETE – cold, emer on battery
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NC-03 HYPERSPACE JUMP

Expanded procedure: SOM Part PRO-NOR, Hyperspace Jump.

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1  PRE-JUMP
   COURSE ..... SET & CONFIRM
   HYPERDRIVE POWER ... ALLOCATE (MAIN)
   HYPERSPACE FACTOR .. SELECT (1-9)
   COOLING ..... CONFIRM CAPACITY

2  CHARGE
   COURSE ..... CONFIRM CLEAR
   HYPERDRIVE ..... CHARGE
   DRIVE HEAT ..... MONITOR

3  JUMP
   HYPERSPACE ..... ENGAGE
   TRANSIT ..... MONITOR (heat / fuel)

4  ARRIVAL
   HYPERSPACE ..... DISENGAGE
   SUB-LIGHT ..... RESUME
   DRIVE ..... COOL DOWN
   □ JUMP COMPLETE
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NC-04 BATTLE STATIONS

L2 = shields up · L1 = weapons up + shields up. Alert set by Command.

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LEVEL 2 (potential threat)
  ALERT ..... SET LEVEL 2
  STATIONS ..... MANNED
  SHIELDS ..... RAISE (all facings)
  WEAPONS ..... STANDBY
  DAMAGE CONTROL .... STANDBY

LEVEL 1 (hostile confirmed)
  ALERT ..... SET LEVEL 1
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SHIELDS UP (all facings)
WEAPONS ARM & POWER UP
POWER COMBAT ALLOCATION
DAMAGE CONTROL MANNED

STAND DOWN (to green)

THREAT RESOLVED
WEAPONS SAFE / DISARM
ALERT SET GREEN
SHIELDS AS REQUIRED
POWER CRUISE ALLOCATION

ABNORMAL & EMERGENCY CHECKLISTS

Worked top to bottom to – STATUS – . A **RED** title is a WARNING; an **AMBER** title is a CAUTION.
[OR] lines are alternatives; [if ...] lines apply only in the stated condition. The full drills (with the why and the inoperative systems) are in the Operating Manual, Part PRO-ABN.

POWER & ENGINEERING

RESERVE POWER — CAUTION

RESERVE POWER

- AUTO BALANCE OFF
- SOURCES ONLINE / RESTART
- SOURCE COOLING CONFIRM LOOP ON
- NON-ESSENTIAL LOAD SHED
- AUTO BALANCE ON (AS REQ)
 - STATUS –

POWER OVERLOAD — CAUTION

POWER OVERLOAD

- AUTO BALANCE OFF
- TRIPPED BREAKER IDENTIFY
- LOAD REDUCE / SHED
- SOURCE COOLING CONFIRM LOOP ON
- SOURCES CONFIRM ONLINE

- BREAKER RESET
- BUS TIES RE-CLOSE AS REQ
- AUTO BALANCE ON (AS REQ)
 - STATUS -

BATTERY LOW — CAUTION

BATTERY LOW

- SOURCES + COOLING RESTORE
- NON-ESSENTIAL LOAD SHED
 - STATUS -

SUBSYSTEM DAMAGE — CAUTION

SUBSYSTEM DAMAGE

- AFFECTED SYSTEM IDENTIFY
- DAMAGE CONTROL DISPATCH
- SYSTEM LOAD REDUCE
 - STATUS -

BLACKOUT — A & B BUSES OFF — WARNING

BLACKOUT — A & B BUSES OFF

- AUTO BALANCE OFF
 - TIE MAIN → A CLOSE [if main bus up]
 - TIE MAIN → B CLOSE [if main bus up]
 - MAIN DEAD: TIE EMER → A/B CLOSE [if main bus dead]
- COOLING PUMPS ON
- FUSION REACTOR RESTART
 - STATUS -

MAIN BUS OFF — WARNING

MAIN BUS OFF

- AUTO BALANCE OFF
- COOLING (A/B LOOP) CONFIRM ON
- MAIN SOURCE COOLING CONFIRM
- MAIN SUPPLY BREAKER RESET
- MAIN REACTOR ONLINE / RESTART
- OTHER BREAKERS / TIES RESET AS REQ

- AUTO BALANCE ON (AS REQ)
- STATUS -

BUS A OFF — CAUTION

BUS A OFF

- AUTO BALANCE OFF
- SOURCE COOLING CONFIRM LOOP ON
- BUS A SOURCE ONLINE / RESTART [OR]
 - SOURCE BREAKER RESET [OR]
 - OR TIE TO LIVE BUS RAISE DONOR FIRST, CLOSE [OR]
- AFFECTED LOADS REROUTE
- AUTO BALANCE ON (AS REQ)
- STATUS -

BUS B OFF — CAUTION

BUS B OFF

- AUTO BALANCE OFF
- SOURCE COOLING CONFIRM LOOP ON
- BUS B SOURCE ONLINE / RESTART [OR]
 - SOURCE BREAKER RESET [OR]
 - OR TIE TO LIVE BUS RAISE DONOR FIRST, CLOSE [OR]
- AFFECTED LOADS REROUTE
- AUTO BALANCE ON (AS REQ)
- STATUS -

EMERGENCY BUS OFF — WARNING

EMERGENCY BUS OFF

- EMER SOURCE / TIE START / CLOSE
- A>E or B>E TIE CLOSE AS REQ
- LIFE SUPPORT / NAV CONFIRM POWERED
- STATUS -

REACTOR OFFLINE — CAUTION

REACTOR OFFLINE

- AUTO BALANCE OFF
- REACTOR COOLING CONFIRM LOOP ON
- REACTOR RESTART

- IF OVERHEAT-TRIPPED COOL, RESET BREAKER [if breaker still tripped]
- AUTO BALANCE ON (AS REQ)
- STATUS -

EMER BUS → A/B — CAUTION

EMER BUS → A/B

- GENERATION RESTORE ON A/B
- EMER → A/B TIE OPEN WHEN GENERATING
- STATUS -

HEAT & COOLANT

COOLING LOST — A & B LOOPS OFF — WARNING

COOLING LOST — A & B LOOPS OFF

- PUMP AUTO OFF
- BUS POWER (A/B) CONFIRM
- LOOP PUMPS ON
- HEAT GENERATION REDUCE
- PUMP AUTO ON (AS REQ)
- STATUS -

OVERHEAT — WARNING

OVERHEAT

- PUMP AUTO OFF
- HOT SYSTEM IDENTIFY
- SYSTEM OUTPUT / LOAD REDUCE
- SERVING LOOP ON + PUMPS UP
- RADIATORS CONFIRM / DMG CTRL
- PUMP AUTO ON (AS REQ)
- STATUS -

COOLANT HOT — WARNING

COOLANT HOT

- PUMP AUTO OFF
- HEAT GENERATION REDUCE
- PUMPS INCREASE

- RADIATOR DAMAGE CHECK / DMG CTRL
- PUMP AUTO ON (AS REQ)
 - STATUS -

COOLANT LOOP A OFF — CAUTION

COOLANT LOOP A OFF

- LOOP A BUS POWER CONFIRM
- LOOP A PUMP ON
- PUMP AUTO / SPEED ON / INCREASE
 - STATUS -

COOLANT LOOP B OFF — CAUTION

COOLANT LOOP B OFF

- LOOP B BUS POWER CONFIRM
- LOOP B PUMP ON
- PUMP AUTO / SPEED ON / INCREASE
 - STATUS -

RADIATOR DAMAGE — CAUTION

RADIATOR DAMAGE

- DAMAGE CONTROL DISPATCH
- HEAT GENERATION REDUCE
 - STATUS -

STAR HEAT — WARNING

STAR HEAT

- HEADING AWAY FROM STAR
- RANGE OPEN
- SHIELDS UP
 - STATUS -

FUEL

FUEL LOW — WARNING

FUEL LOW

- PROPULSION BURN MINIMISE
- NEAREST DEPOT PLOT
- REFUEL AS ABLE
- STATUS -

FLIGHT & FTL

COLLISION WARNING — WARNING

COLLISION WARNING

- HELM EVASIVE / ALL STOP
- SHIELDS UP
- CREW BRACE
- STATUS -

FTL INTERDICTED — CAUTION

FTL INTERDICTED

- JUMP UNAVAILABLE - NOTED
- SUB-LIGHT EGRESS MANOEUVRE CLEAR
- STATUS -

ENGINES OFFLINE — WARNING

ENGINES OFFLINE

- A/B BUS POWER CONFIRM / RESTORE
- ENGINE BUS CHECK / TIE
- ENGINE POWER RESTORE
- STATUS -

HYPERDRIVE OFFLINE — CAUTION

HYPERDRIVE OFFLINE

- MAIN BUS POWER CONFIRM SUPPLY
 - HYPERDRIVE BREAKER RESET / RECONNECT
- HYPERDRIVE POWER RESTORE
- STATUS -

HULL & DEFENCE

HULL DAMAGE — WARNING

HULL DAMAGE

- DAMAGE CONTROL DISPATCH
- SPEED / MANOEUVRE REDUCE
- SHIELDS UP
- RETURN TO STATION CONSIDER
 - STATUS -

ARMOUR LOW — CAUTION

ARMOUR LOW

- DAMAGED FACING ANGLE AWAY
- ARMOUR REPAIR AS ABLE
 - STATUS -

SHIELDS LOW — CAUTION

SHIELDS LOW

- SHIELD POWER INCREASE
- FACINGS REBALANCE
- THREAT AXIS PRESENT STRONG ARC
 - STATUS -

SHIELD FACING DOWN — CAUTION

SHIELD FACING DOWN

- SHIP ATTITUDE TURN DOWNED ARC AWAY
- SHIELDS REBALANCE
 - STATUS -

SHIELDS UNDER-POWERED — CAUTION

SHIELDS UNDER-POWERED

- ENGINEERING SUPPLY SHIELD POWER
- NON-ESSENTIAL LOAD SHED
 - STATUS -

LIFE SUPPORT

LIFE SUPPORT FAILURE — WARNING

LIFE SUPPORT FAILURE

- LIFE SUPPORT POWER RESTORE
- BREACHES SEAL
- O2 CHECK RESERVE
 - STATUS -

O2 RESERVE LOW — WARNING

O2 RESERVE LOW

- CO2 SCRUBBER CONFIRM POWERED
- CREW ACTIVITY MINIMISE
- BREACHES SEAL
 - STATUS -

CO2 SCRUBBER — WARNING

CO2 SCRUBBER

- SCRUBBER POWER RESTORE
- SCRUBBER DAMAGE DAMAGE CONTROL
 - STATUS -

DECOMPRESSION — WARNING

DECOMPRESSION

- AFFECTED COMPT SEAL
- CREW EVACUATE COMPT
- HULL DAMAGE CONTROL
 - STATUS -

TACTICAL & SENSORS

NUCLEAR / RADIOLOGICAL — WARNING

NUCLEAR / RADIOLOGICAL

- SHIELDS UP

- RANGE FROM BURST OPEN
- CREW BRACE
- STATUS -

WEAPON LOCK — CAUTION

WEAPON LOCK

- ECM / EVASIVE AS REQUIRED
- SHIELDS UP
- THREAT ENGAGE / EVADE
- STATUS -

MISSILE INBOUND — CAUTION

MISSILE INBOUND

- POINT DEFENCE AUTO ON
- ECM AS REQUIRED
- HELM EVASIVE
- SHIELDS UP
- STATUS -

WEAPONS UNDER-POWERED — CAUTION

WEAPONS UNDER-POWERED

- ENGINEERING SUPPLY WEAPONS PWR
- NON-ESSENTIAL LOAD SHED
- STATUS -

SENSORS UNDER-POWERED — CAUTION

SENSORS UNDER-POWERED

- ENGINEERING SUPPLY SENSORS PWR
- NON-ESSENTIAL LOAD SHED
- STATUS -

PD UNDER-POWERED — CAUTION

PD UNDER-POWERED

- ENGINEERING SUPPLY WEAPONS PWR

- NON-ESSENTIAL LOAD SHED
- STATUS -

COMMS UNDER-POWERED — CAUTION

COMMS UNDER-POWERED

- ENGINEERING SUPPLY COMMS PWR
- NON-ESSENTIAL LOAD SHED
- STATUS -