

DARKHELM — ABNORMAL & EMERGENCY PROCEDURES (PART PRO-ABN)

TERRAN NAVY · EARTH FEDERATION — Ship Operating Manual, Part PRO-ABN. Abnormal & emergency drills, grouped by system.

Each drill lists the actions for one **ESMS** alert — work top to bottom to **– STATUS –**. A **WARNING** (red) demands immediate action and lights the MASTER WARNING; a **CAUTION** (amber) lights the MASTER CAUTION. **[OR]** lines are alternatives — any one satisfies the step; **[if ...]** lines apply only in the stated condition.

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 –

Amplification. An emergency-bus battery is discharging to carry the load — generation is not meeting demand. Endurance is now limited to the battery's state of charge. Restore a source or shed load before the battery is exhausted.

INOP SYS: Endurance limited to battery charge.

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 -

Amplification. Sustained demand exceeded supply on a bus and its protection has tripped, dropping that bus's non-critical loads. Reduce demand, then reset the affected breaker.

INOP SYS: Tripped consumers (until reset).

BATTERY LOW — CAUTION

BATTERY LOW

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

Amplification. Emergency-bus battery charge is low. With generation lost, remaining console and life-support endurance is short — restore charging or bring a source on line.

INOP SYS: Reserve endurance reduced.

SUBSYSTEM DAMAGE — CAUTION

SUBSYSTEM DAMAGE

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

Amplification. A system has taken damage and is degraded or offline. Dispatch damage control and reduce its load until repaired.

INOP SYS: Affected system (degraded / offline).

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 –

Amplification. Both working buses are dead — no impulse, cooling pumps or sensors. Work the power cold-start chain: restore A/B (battery reverse-tie if required), then cooling, then the reactors.

INOP SYS: Impulse, cooling pumps, sensors.

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 –

Amplification. The main bus is unpowered — shields, hyperdrive and weapons have no supply. Confirm source cooling, reset the supply breaker, then restart the antimatter core.

INOP SYS: Shields, hyperdrive, weapons.

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 -

Amplification. Bus A has lost supply. Loads fed only from A are down; A/B-shared loads continue on B. Restore the A-side source, or tie A from a live bus (raise the donor first).

INOP SYS: Bus-A-only loads.

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 -

Amplification. Bus B has lost supply. Loads fed only from B are down; A/B-shared loads continue on A. Restore the B-side source, or tie B from a live bus (raise the donor first).

INOP SYS: Bus-B-only loads.

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 -

Amplification. The emergency bus is unpowered — consoles and life support have lost their feed. This is critical: restore the battery or a tie to the emergency bus immediately.

INOP SYS: Consoles, life support, comms.

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 -

Amplification. A power source is offline. Confirm its cooling, then restart it; until restored, the remaining sources carry the load with reduced margin.

INOP SYS: Reduced generation margin.

EMER BUS → A/B — CAUTION

EMER BUS → A/B

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

Amplification. The battery is feeding buses A/B through a reverse tie — normal only during a battery start or blackout recovery. It drains the battery quickly; open the tie once the reactors carry A/B.

INOP SYS: Battery discharging — limited duration.

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 -

Amplification. Both coolant loops are off or failed — system heat is no longer being cleared and will climb to damaging levels. Restore at least one loop at once and shed heat-producing loads.

INOP SYS: Both cooling loops.

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 -

Amplification. A system has exceeded its heat limit and is taking integrity damage; left unchecked its breaker will latch off. Reduce its load and confirm its loop is cooling.

INOP SYS: Overheating system (impending trip).

COOLANT HOT — WARNING

COOLANT HOT

- PUMP AUTO OFF
- HEAT GENERATION REDUCE
- PUMPS INCREASE
- RADIATOR DAMAGE CHECK / DMG CTRL
- PUMP AUTO ON (AS REQ)
 - STATUS -

Amplification. A coolant loop is running hot — pump throughput or radiator rejection cannot keep up with the load. Reduce heat load or restore cooling capacity before systems overheat.

INOP SYS: Reduced cooling margin.

COOLANT LOOP A OFF — CAUTION

COOLANT LOOP A OFF

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

Amplification. Coolant loop A is not clearing heat; its share backs up and its systems warm. Restore the loop-A pump — loop B carries what it can in the interim.

INOP SYS: Loop A cooling.

COOLANT LOOP B OFF — CAUTION

COOLANT LOOP B OFF

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

Amplification. Coolant loop B is not clearing heat; its share backs up and its systems warm. Restore the loop-B pump — loop A carries what it can in the interim.

INOP SYS: Loop B cooling.

RADIATOR DAMAGE — CAUTION

RADIATOR DAMAGE

- DAMAGE CONTROL DISPATCH
- HEAT GENERATION REDUCE
 - STATUS -

Amplification. A radiator's heat-rejection capacity is reduced — the affected loop's coolant will run hotter. Repair the radiator; the other loop compensates meanwhile.

INOP SYS: Reduced heat-rejection capacity.

STAR HEAT — WARNING

STAR HEAT

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

Amplification. Stellar proximity is heating the shield bubble (or the hull/armour with shields down) — sustained exposure damages plating. Open the range from the star.

INOP SYS: Plating heating — withdraw.

FUEL

FUEL LOW — WARNING

FUEL LOW

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

Amplification. Reactor or drive fuel stores are low. Plan resupply; at exhaustion the affected source or drive will stop.

INOP SYS: Endurance limited; FTL range reduced.

FLIGHT & FTL

COLLISION WARNING — WARNING

COLLISION WARNING

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

Amplification. A body or contact is on a collision course at close range. Alter course or stop. Reverting from hyperspace inside a body is fatal.

FTL INTERDICTED — CAUTION

FTL INTERDICTED

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

Amplification. A gravity well or interdiction field is preventing hyperspace engagement. Clear the well/field before attempting a jump.

INOP SYS: Hyperdrive (engagement blocked).

ENGINES OFFLINE — WARNING

ENGINES OFFLINE

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

Amplification. The impulse engines have no power — no thrust and no attitude control. Restore engine bus/allocation; the ship is adrift until then.

INOP SYS: Impulse, manoeuvring.

HYPERDRIVE OFFLINE — CAUTION

HYPERDRIVE OFFLINE

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

Amplification. The hyperdrive is offline — no FTL. Confirm Main-bus supply and the drive breaker, and that the drive is allocated power.

INOP SYS: Hyperspace travel.

HULL & DEFENCE

HULL DAMAGE — WARNING

HULL DAMAGE

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

Amplification. Hull integrity is low; at breach, the affected compartment vents to space. Dispatch damage control and reduce exposure.

INOP SYS: Affected compartment (on breach).

ARMOUR LOW — CAUTION

ARMOUR LOW

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

Amplification. Armour is depleted over one or more facings — penetrating hits now reach the hull and internal systems. Re-orient to present an intact facing.

INOP SYS: Armour protection reduced.

SHIELDS LOW — CAUTION

SHIELDS LOW

- SHIELD POWER INCREASE
- FACINGS REBALANCE

- THREAT AXIS PRESENT STRONG ARC
- STATUS –

Amplification. Shield reserves are low across the bubble. Manage facings toward the threat and allow regeneration when fire slackens.

INOP SYS: Shield protection reduced.

SHIELD FACING DOWN — CAUTION

SHIELD FACING DOWN

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

Amplification. A shield facing has collapsed — hits on that arc strike armour and hull directly. Turn an intact facing to the threat until it regenerates.

INOP SYS: Collapsed shield facing.

SHIELDS UNDER-POWERED — CAUTION

SHIELDS UNDER-POWERED

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

Amplification. Shields are receiving less power than assigned — regeneration rate and ceiling are degraded. Increase shield allocation or reduce competing main-bus loads.

INOP SYS: Shield performance reduced.

LIFE SUPPORT

LIFE SUPPORT FAILURE — WARNING

LIFE SUPPORT FAILURE

- LIFE SUPPORT POWER RESTORE

- BREACHES SEAL
- O2 CHECK RESERVE
- STATUS -

Amplification. Life support has failed — atmosphere is no longer maintained. Restore power to life support immediately; crew survival time is limited.

INOP SYS: Atmosphere regulation.

O2 RESERVE LOW — WARNING

- O2 RESERVE LOW
- CO2 SCRUBBER CONFIRM POWERED
- CREW ACTIVITY MINIMISE
- BREACHES SEAL
- STATUS -

Amplification. Oxygen reserve is low. Restore scrubber/generation and seal any breach. At crisis level the crew is endangered.

INOP SYS: Oxygen margin.

CO2 SCRUBBER — WARNING

- CO2 SCRUBBER
- SCRUBBER POWER RESTORE
- SCRUBBER DAMAGE DAMAGE CONTROL
- STATUS -

Amplification. The CO₂ scrubber is degraded or unpowered and CO₂ is rising. Restore scrubber power and integrity before it reaches crisis.

INOP SYS: CO₂ removal.

DECOMPRESSION — WARNING

- DECOMPRESSION
- AFFECTED COMPT SEAL
- CREW EVACUATE COMPT

- HULL DAMAGE CONTROL
- STATUS -

Amplification. A compartment is venting to space. The system auto-seals at threshold; assist with damage control and isolate the compartment.

INOP SYS: Breached compartment.

TACTICAL & SENSORS

NUCLEAR / RADIOLOGICAL — WARNING

NUCLEAR / RADIOLOGICAL

- SHIELDS UP
- RANGE FROM BURST OPEN
- CREW BRACE
- STATUS -

Amplification. A nuclear detonation has occurred nearby — blast plus an electromagnetic pulse that blinds sensors. Expect a sensor blackout and open the range.

INOP SYS: Sensors (temporary EMP blackout).

WEAPON LOCK — CAUTION

WEAPON LOCK

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

Amplification. A hostile has a firing solution on us. Break the lock with manoeuvre and countermeasures (decoy), confirm shields up, and engage as directed.

MISSILE INBOUND — CAUTION

MISSILE INBOUND

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

Amplification. One or more missiles are tracking us. Engage point-defence, deploy countermeasures (chaff / decoy), and manoeuvre to defeat the seekers.

WEAPONS UNDER-POWERED — CAUTION

WEAPONS UNDER-POWERED

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

Amplification. Fire control / weapons are receiving less power than assigned — charge times lengthen and output falls. Increase weapons allocation.

INOP SYS: Weapon performance reduced.

SENSORS UNDER-POWERED — CAUTION

SENSORS UNDER-POWERED

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

Amplification. Sensors are under-powered — detection and classification range and rate are reduced. Increase sensor allocation.

INOP SYS: Sensor performance reduced.

PD UNDER-POWERED — CAUTION

PD UNDER-POWERED

- ENGINEERING SUPPLY WEAPONS PWR

- NON-ESSENTIAL LOAD SHED
- STATUS -

Amplification. Point-defence is under-powered — interception capability against inbound missiles is reduced. Increase its allocation, especially with missiles inbound.

INOP SYS: Point-defence performance reduced.

COMMS UNDER-POWERED — CAUTION

COMMS UNDER-POWERED

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

Amplification. Communications are under-powered — range and available channels are degraded. Increase comms allocation.

INOP SYS: Comms performance reduced.

STATUS MEMOS (Level 4 — informational)

Memo
DOCKED
MAINT POWER
RESUPPLY RDY
DEPARTURE CLR
SHIELDS UP
WEAPONS ARMED
FTL CHARGING
IN TRANSIT
AUTOPILOT
SILENT RUNNING
WING DEPLOYED
SHUTTLE OUT

Memo
ECM ACTIVE
DISTRESS BEACON
NUKE ARMED
TUBE OPEN
LAUNCH AUTH'D