

Transmitter Power-down Procedure

3.4.1.2 Transmitter Power-down Procedure

3.4.1.2 Transmitter Power-down Procedure. To gain control and place system in standby, perform steps 1 and 2.

1. At the MSCF Workstation, enable local RDA control by performing the following step:

a. On the HCI (active/controlling channel only for FAA systems), click the **Control** block in the RDA area and click on **Enable Local (RDA)**.

RPG Control/Status

Monday August 19, 2019 18:38:25 UT

State: **OPERATE**
Oper: **ONLINE**

VCP: 212
AVSET: **ENABLED**
SAILS: **ACTIVE/3**
MRLE: **DISABLED**
PRF Mode: **MULTI-STORM**
Perf Check In: 02h 17m

Mode Conflict: **NO**
Clear Air Switch: **AUTO**
Precip Switch: **AUTO**

Volume 59 (Seq: 59) Start: Aug 19, 2019 18:35:44 UT

TPS: **OK**

RDA NOP3
Control
Alarms

RPG
Control
Products
Status

USERS
Comms

Precip Status: **ACCUM**
VAD Update: **ON**
Model Update: **ON**
CMD: **ENABLED**
Load Shed: **NORMAL**
H Delta dBZ0: **-0.48 dB**
V Delta dBZ0: **-0.16 dB**

Feedback: Aug 19, 19 [18:35:44] >> Requesting the VCP to be restarted
Status: Aug 19, 19 [18:35:46] >> Vol: 59 (Seq: 59) RDA Clock:08/19/19 18:35:44 VCP: 212 L2: 6 DP SR SAILSx3
Alarms: Aug 19, 19 [14:42:23] >> RDA ALARM CLEARED: RPG LINK INITIALIZATION ERROR

Close Get Status RDA Alarms VCP and Mode Control

RDA State
State: **OPERATE**
Standby Restart
Operate

RDA Control
Control: **REMOTE (RPG)**
Enable Local (RDA)
Select Remote (RPG)

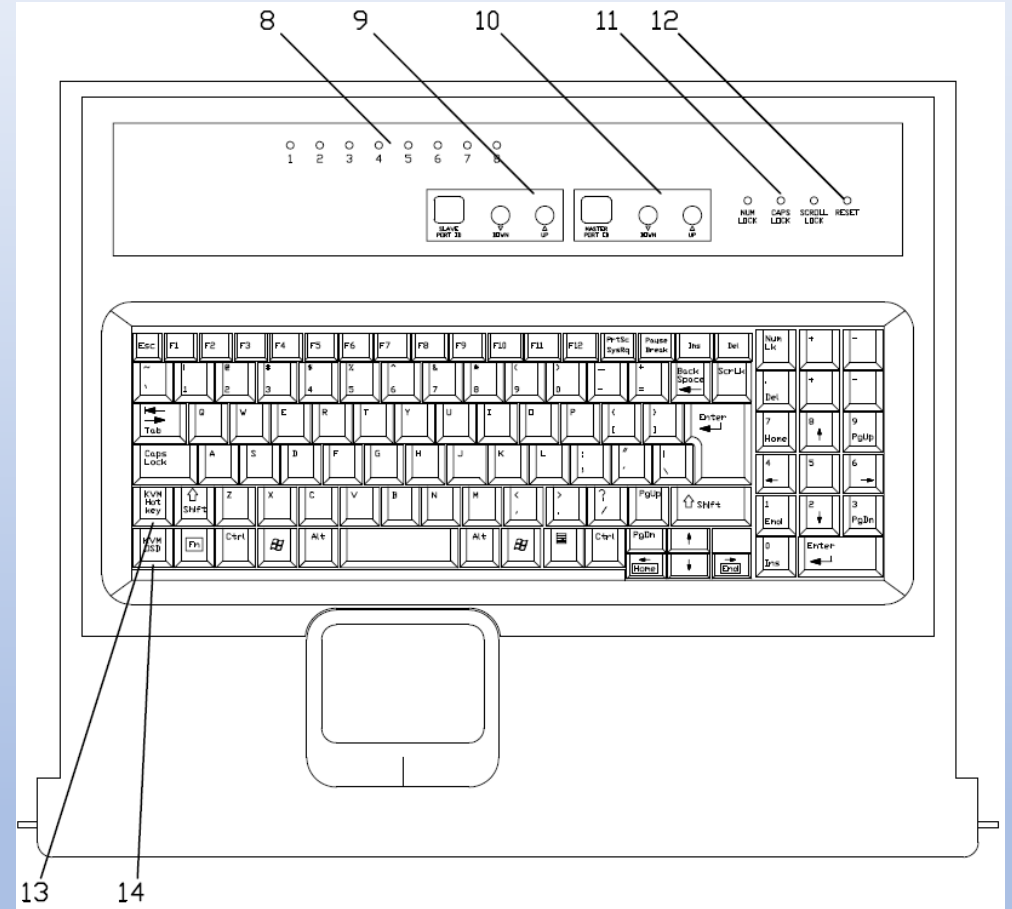
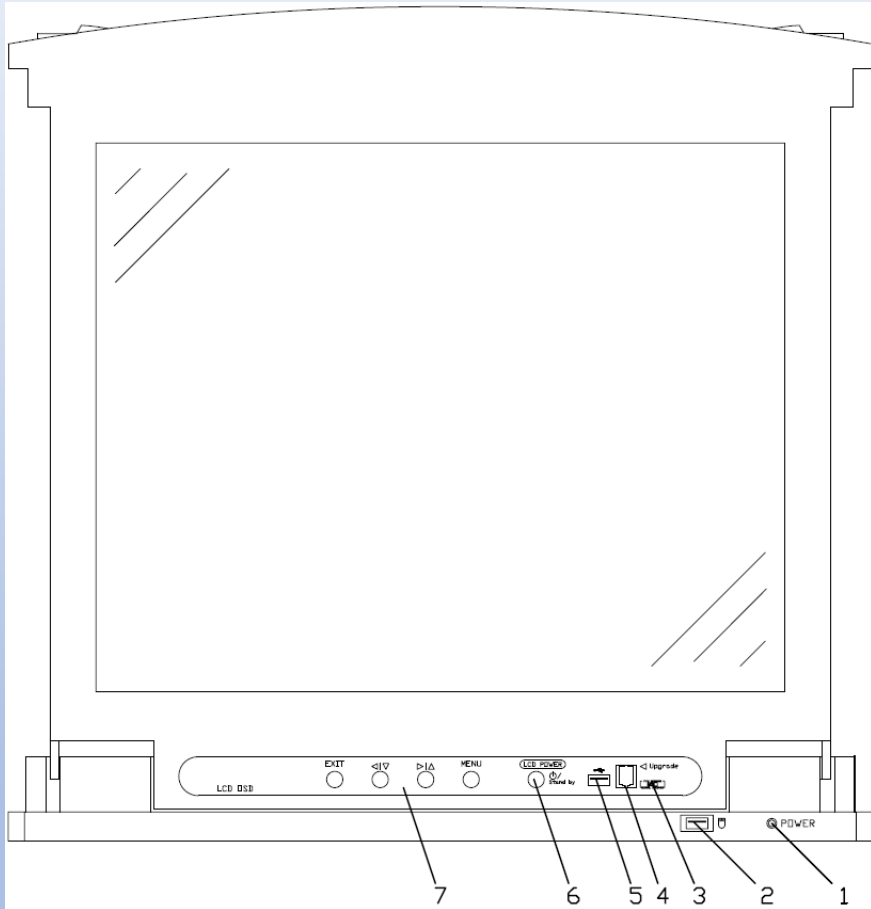
RDA Power Source
Source: **UTILITY**
Utility Auxiliary

Performance Check
Status: **AUTOMATIC**
Initiate Performance Check

Control Authority:	NO ACTION	H Delta dBZ0:	0.37 dB
Transmitter Power:	1130 Watts	V Delta dBZ0:	0.15 dB
		Moments Enabled:	R V W

2. Perform the following steps at KVM UD90/190A10 to obtain control and go to standby:

a. Ensure RSP UD90/190A11 is selected (MASTER PORT ID=01). If not, use **UP/DOWN** buttons to select **01**.



6	LCD POWER Button/LED	This button allows the user to turn off power to the LCD screen. When the Standby mode is activated, the button LED is lit orange. To restore power to the LCD, press the button and the LED turns off and the LCD power is restored.	N/A
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10	Master Port ID LED Display and Up/Down Buttons	LED display is used to indicate selected processor and the Up/Down arrows are used to change selected processor. Note: This is the primary processor selection method, but refer to Indexes 13 and 14 for alternate methods.	01
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For Training Use Only

b. In the Main RDA HCI, click on the **Log In** button.

The screenshot displays the 'NTC1 Main RDA HCI' interface. At the top, it shows the date and time 'Jan 13, 2021 17:22:45' and a yellow 'Maintenance Required' banner. The interface is divided into several sections:

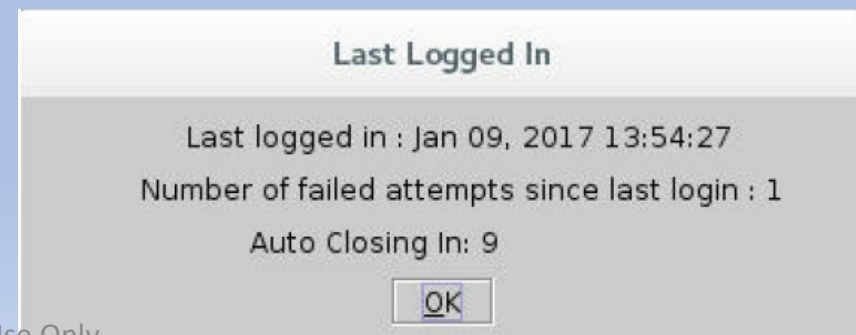
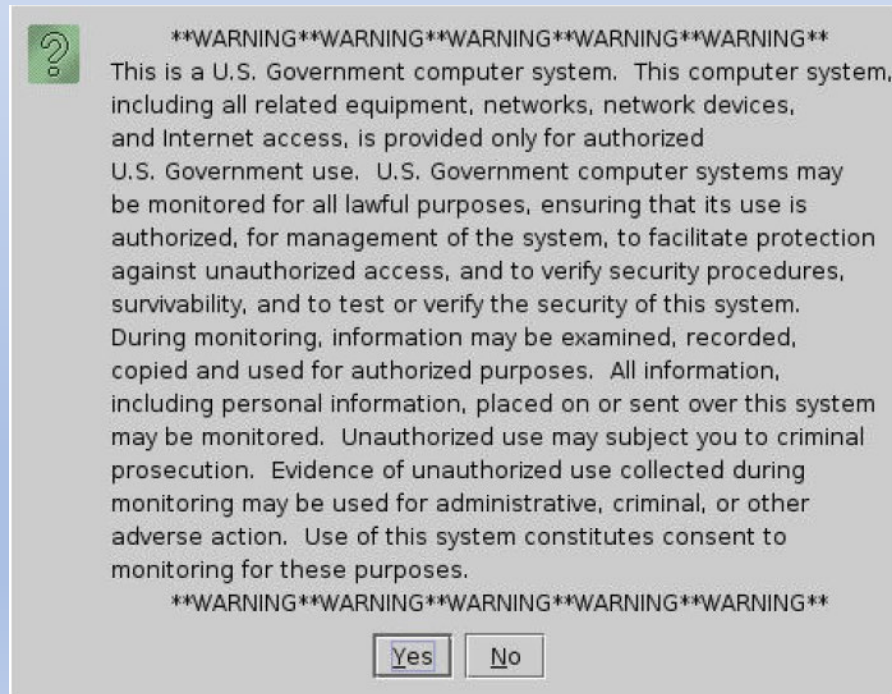
- Top Left:** A battery level indicator shows '73% Full'. Below it are two status boxes: 'UTIL Util/Gen On' and 'TPS TPS OK'.
- Top Center:** A white circle indicates 'Pedestal Parked AZ: N/A'. Below this is a diagram of a radar antenna tower.
- Top Right:** A table of status parameters: VCP N/A, EL: N/A, PRF: N/A, and Cut: N/A.
- Middle Left:** A table of system settings: RxRN (Enabled), CBT (Enabled), and EBC (Disabled).
- Middle Right:** A table of performance metrics: H:V Delta dBZ0: 0.01 : -0.02 dB, H:V Noise: -83.01 : -83.01 dBm, H:V Noise Temp: 216.57 : 208.88 K, Xmtr Status: Ready, Peak Power: 613.8 kW, Waveguide: Dummy Load, and Alarm: COM.
- Center:** The 'RDA Single Channel' control panel. It includes dropdown menus for 'Mode: Operational', 'Control: RDA Ctrl', and 'State: Standby'. A 'Log In' button is present, with the text 'Not logged in.' below it. To the right of this panel are four horizontal bars labeled R, V, W, and D.
- Right Side:** A vertical column of buttons: 'Data Display', 'Performance Data', 'Log Data', 'Adaptation Data Current', 'Console Message', 'System Test Software', 'Backup/Restore', and 'Data Recording'.
- Bottom:** An 'Information' dropdown menu showing 'Connected to RDA'. Below it, a red alarm message reads: 'Jan 13, 2021 17:21:56 HORIZONTAL CLUTTER REJECTION DEGRADED -- CLEARED'. At the very bottom, there are two timers: 'System Up Time : 00:02:50' and 'Performance Check Countdown : 07:57:13', followed by a 'Close' button.

b. In the Main RDA HCI, click on the **Log In** button.

c. In the ****WARNING**** pop-up window, click on **Yes**.

d. In the Please Enter Login Info pop-up window, in the User Name and Password text fields, enter *user name* and *password* and click on **OK**.

e. In the Last Logged In pop-up window, click on **OK**.



f. In the RDA HCI box, click on the **Req Control** button.

The screenshot displays the 'NTC1 Main RDA HCI' interface. At the top, there is a menu bar with 'RDA', 'Power Source', 'Options', and 'Help'. Below the menu bar, a timestamp 'Jan 13, 2021 17:24:55' and a yellow 'Maintenance Required' banner are visible. The main area is divided into several sections:

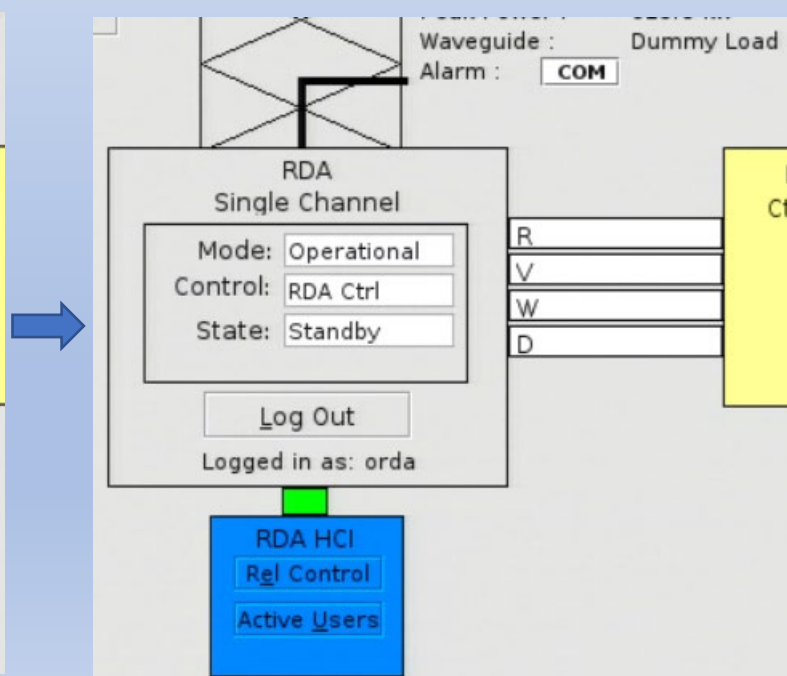
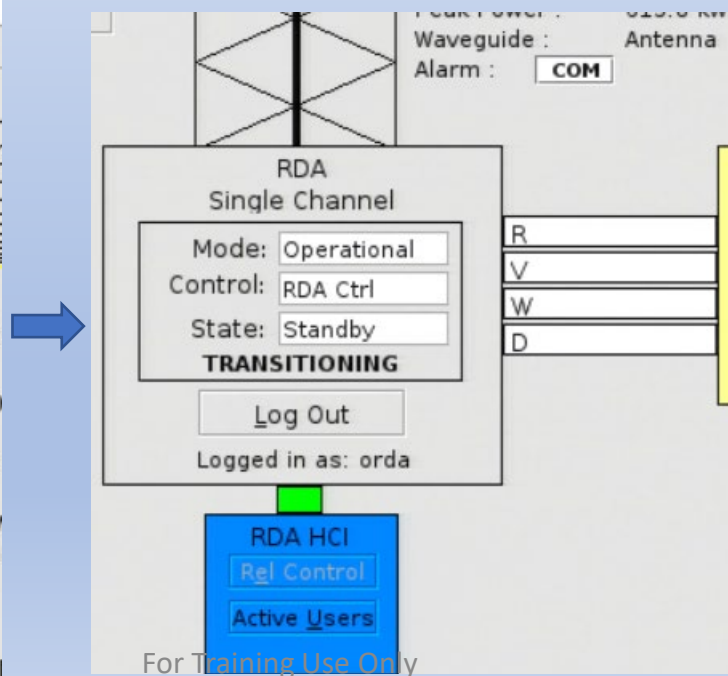
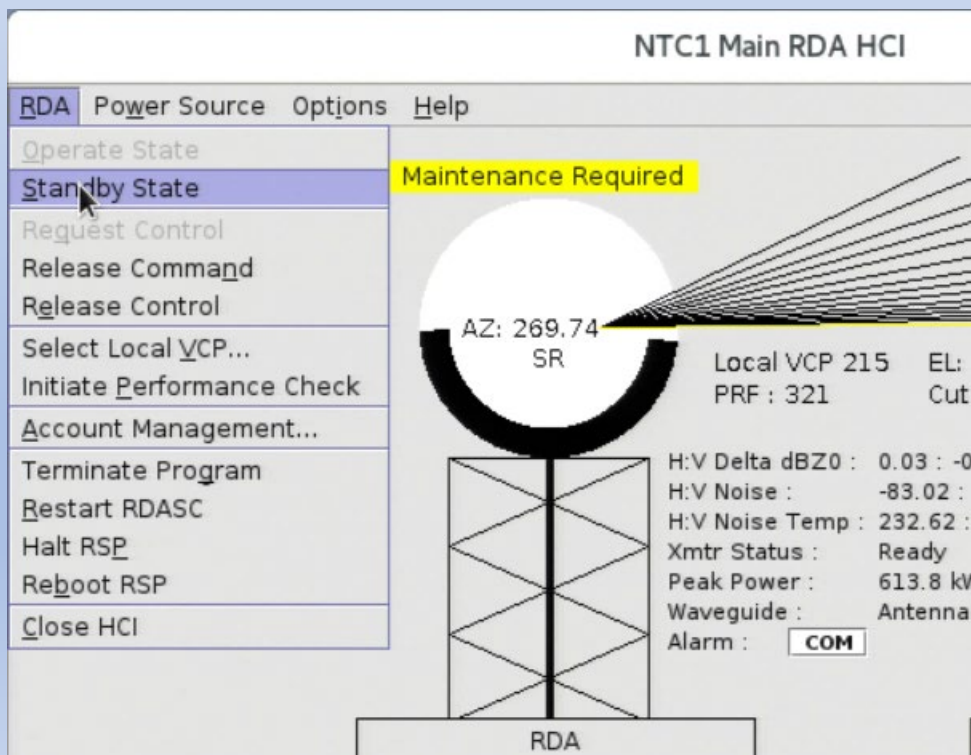
- Left Panel:** Contains status indicators for 'UTIL' (Util/Gen On), 'TPS' (TPS OK), 'RxRN' (Enabled), 'CBT' (Enabled), and 'EBC' (Disabled). A '73% Full' indicator is also present.
- Center:** Features a 'Pedestal Parked' status with 'AZ: N/A'. Below this is a diagram of a radar antenna structure.
- Right Panel:** Displays technical data including 'VCP N/A', 'EL: N/A', 'Cut: N/A', 'H:V Delta dBZ0: 0.02 : -0.00 dB', 'H:V Noise: -83.03 : -83.04 dBm', 'H:V Noise Temp: 222.91 : 220.60 K', 'Xmtr Status: Ready', 'Peak Power: 613.8 kW', 'Waveguide: Dummy Load', and 'Alarm: COM'.
- Bottom Center:** A large 'RDA Single Channel' control panel with fields for 'Mode: Operational', 'Control: RDA Ctrl', and 'State: Standby'. It includes a 'Log Out' button and 'Logged in as: orda'. Below this is a blue 'RDA HCI' box with 'Req Control' and 'Active Use' buttons. A tooltip 'Request Control' is shown over the 'Req Control' button.
- Right Sidebar:** A vertical stack of buttons for 'Data Display', 'Performance Data', 'Log Data', 'Adaptation Data Current', 'Console Message', 'System Test Software', 'Backup/Restore', and 'Data Recording'.

At the bottom, an 'Information' dropdown shows 'Connected to RDA'. A green bar indicates the 'Last Alarm: Jan 13, 2021 17:21:56 HORIZONTAL CLUTTER REJECTION DEGRADED -- CLEARED'. The footer shows 'System Up Time: 00:05:00', 'Performance Check Countdown: 07:55:03', and a 'Close' button.

NOTE

The ► symbol indicates successive left mouse button clicks. For example, at the RDA HCI Menu Command Bar, when **RDA** is clicked, a drop-down menu is displayed with numerous options (for example **Standby State**). Those steps can be shortened to **RDA ► Standby State**.

g. In the RDA HIC Command Menu Bar, click on the **RDA ► Standby State**. Verify the State field changes to Standby.



3. At Transmitter UD3/UD103, obtain maintenance control with high voltage off by performing the following:

- a. On Transmitter Control Panel A1, verify the transmitter is in system control by observing the MAINT/SYSTEM switch. Verify the SYSTEM indicator is illuminated (amber) and MAINT indicator is not illuminated.



- b. Observe the HV ON/NO CONTROL switch. Verify the HV ON indicator is not illuminated and NO CONTROL indicator is illuminated (amber).



- c. Observe the HV OFF/NO CONTROL switch. Verify the HV OFF indicator is illuminated (white) and the NO CONTROL indicator is illuminated (amber).



d. Press the **MAINT/SYSTEM** switch to illuminate MAINT. Verify both NO CONTROL lights are not illuminated and the HV OFF light is illuminated.



4. At Power Distribution Panel A13, remove and lockout the high voltage power as follows:

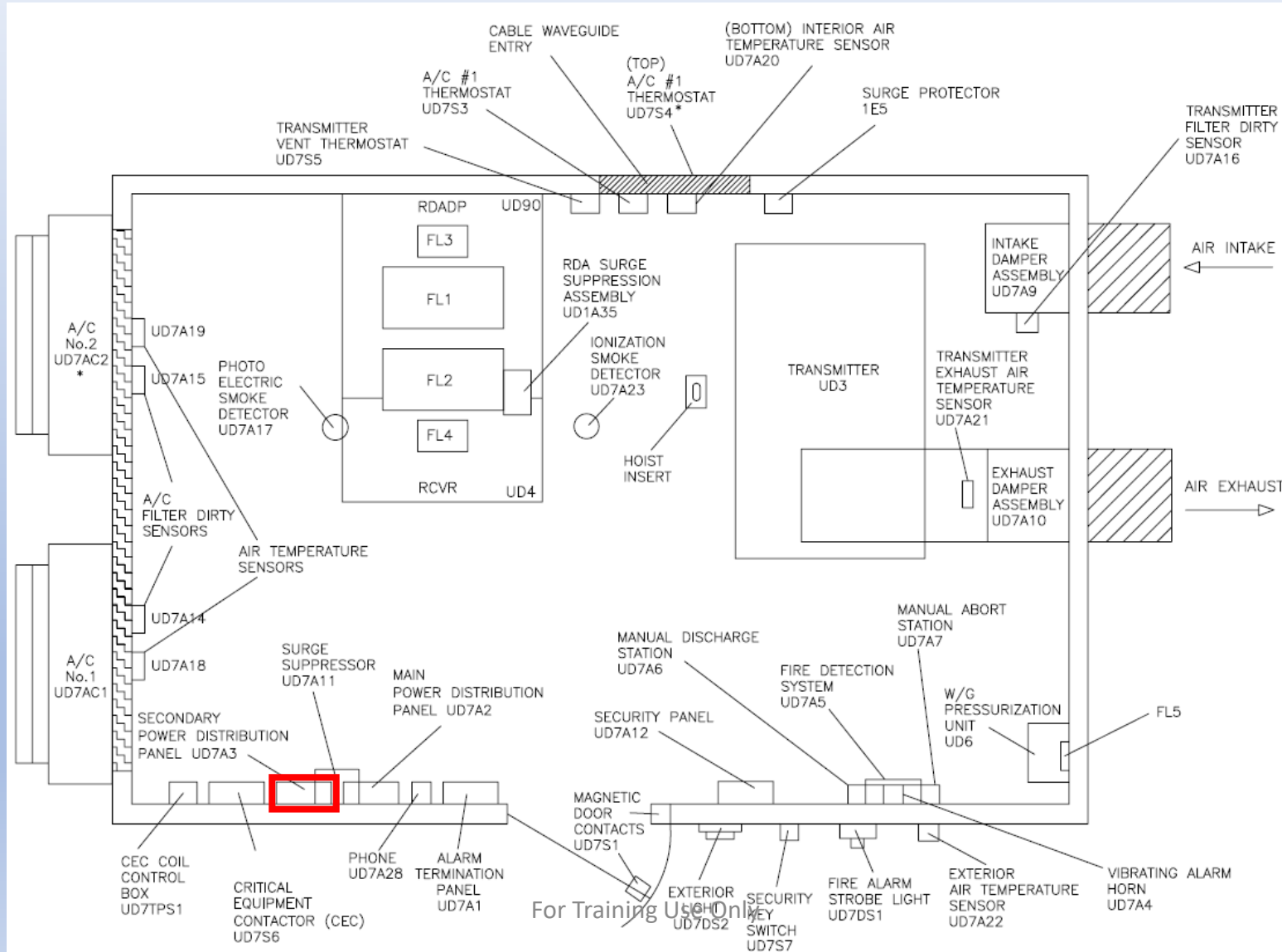
- a. Set the CABINET LIGHTS CB3 circuit breaker to **OFF**.
- b. Set HIGH VOLTAGE POWER CB1 circuit breaker to **OFF**.
- c. Set the AUXILIARY POWER CB2 circuit breaker to **OFF**.
- d. Lock HIGH VOLTAGE POWER CB1 circuit breaker to **OFF** and remove the key.



5. At Secondary Power Distribution Panel #1 UD7A3 (channel 1), #2 UD7A29 (channel 2), set CB1/3/5 (ganged) for the transmitter and CB7 (CB9 for FAA systems) for the transmitter utility power outlets to **OFF**.

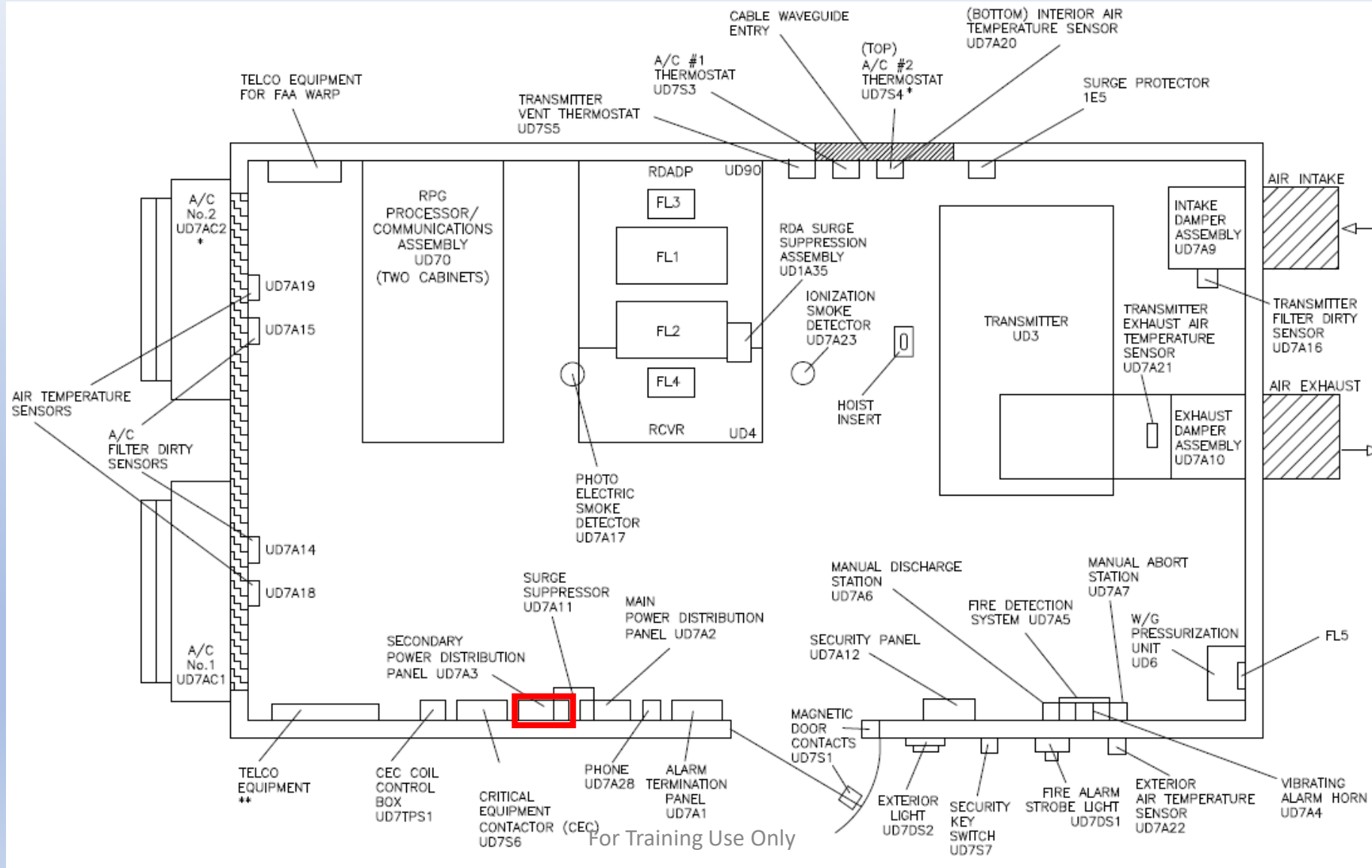
NWS Single Configuration

Many instructions
stop at step 4



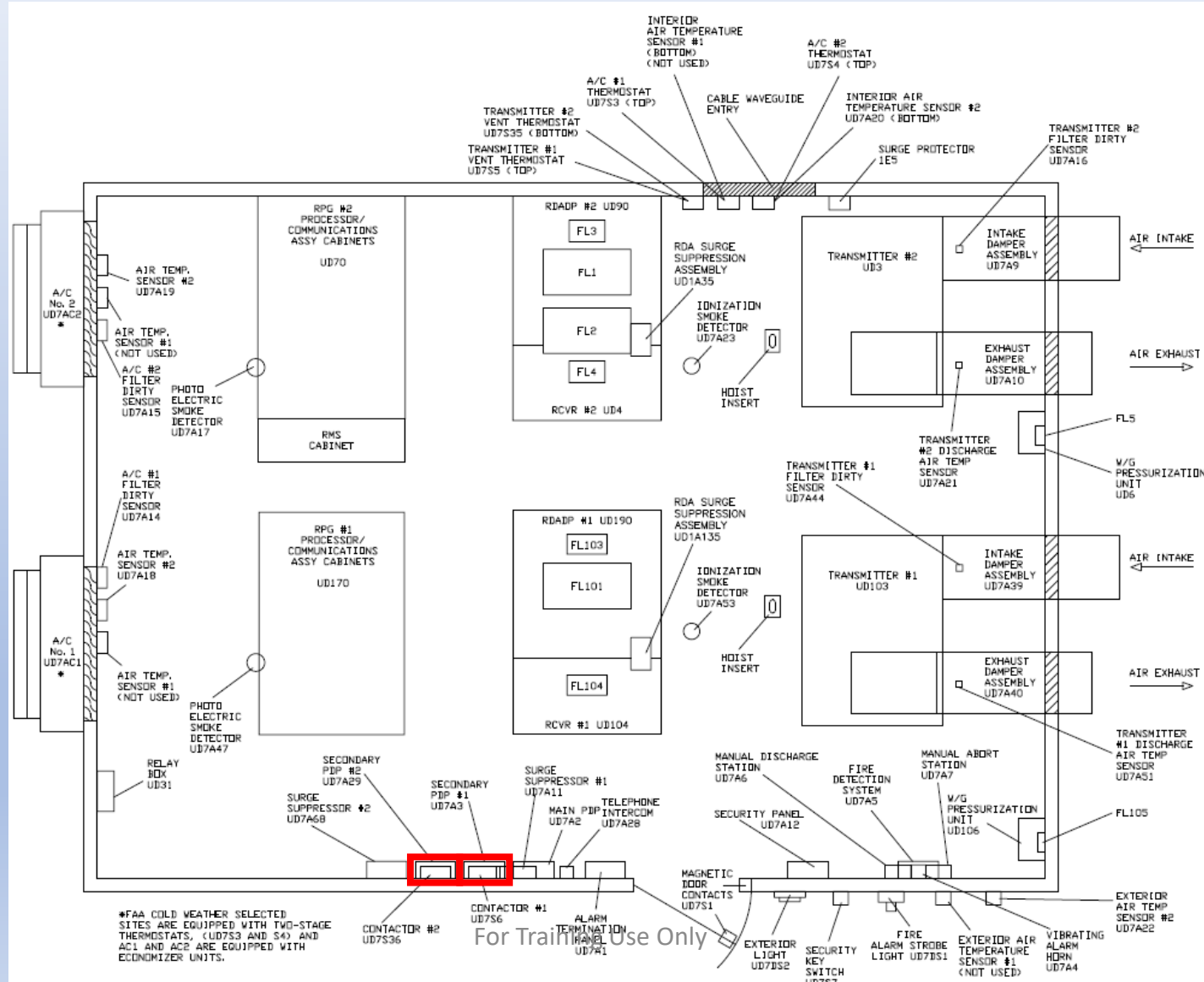
5. At Secondary Power Distribution Panel #1 UD7A3 (channel 1), #2 UD7A29 (channel 2), set CB1/3/5 (ganged) for the transmitter and CB7 (CB9 for FAA systems) for the transmitter utility power outlets to **OFF**.

DOD Configuration



5. At Secondary Power Distribution Panel #1 UD7A3 (channel 1), #2 UD7A29 (channel 2), set CB1/3/5 (ganged) for the transmitter and CB7 (CB9 for FAA systems) for the transmitter utility power outlets to **OFF**.

FAA Configuration (Alaska / Puerto Rico shown)



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NWS Redundant Configuration

