



Cat 1 Tanker

January 2023



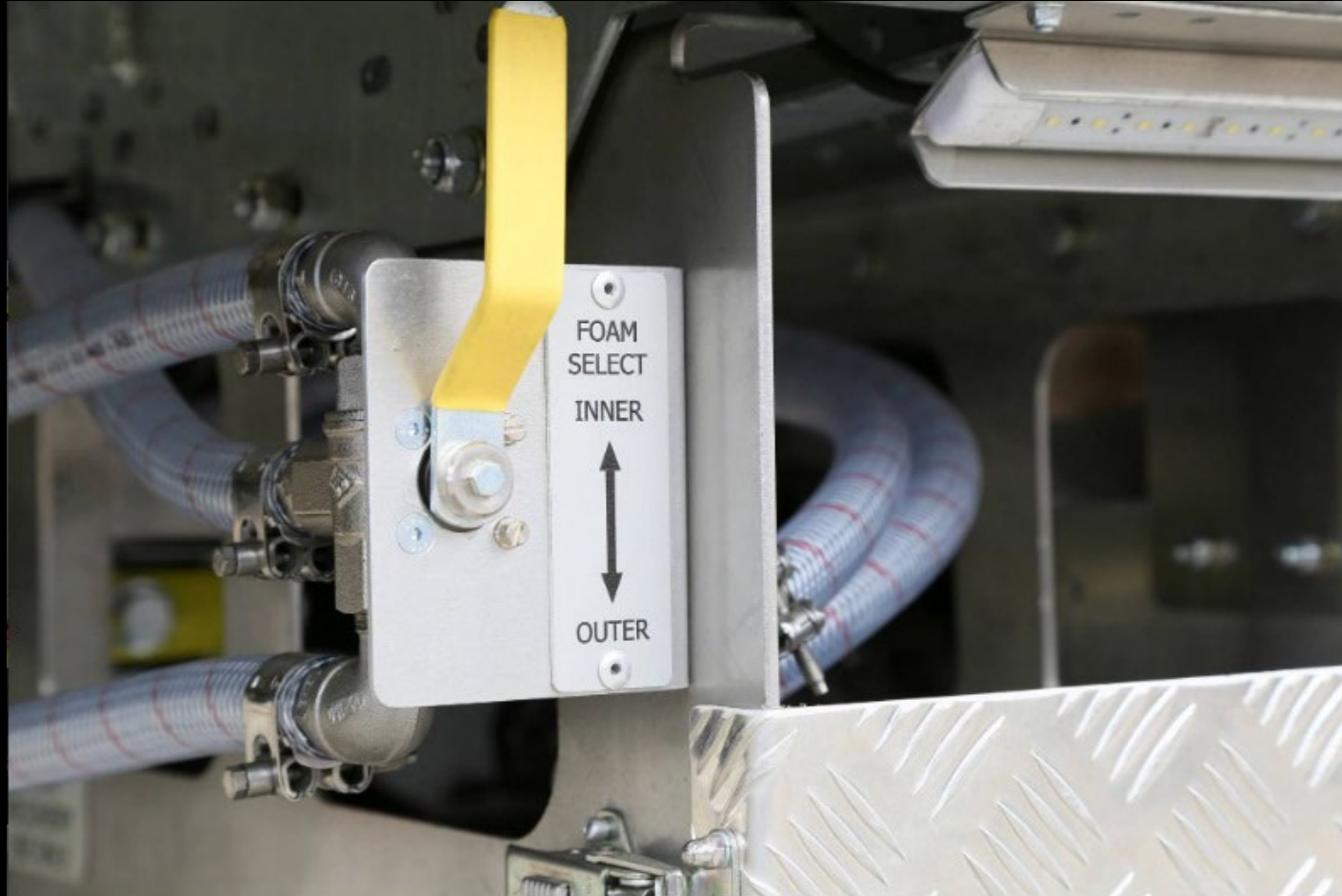


Right side view





Foam Selector – right rear



Foam Pale Storage – Stowage for 2x20L Foam Pale as well as drum selector to allow transition between pales without removing.



Two fire extinguishers



Fire Extinguisher Locker – Space for two 9kg fire extinguishers plus additional locker space.



Fridge



Welfare Locker – Fitted with fridge a which is installed on a tilting shelf for easy access. Additional storage is available on the shelf above.



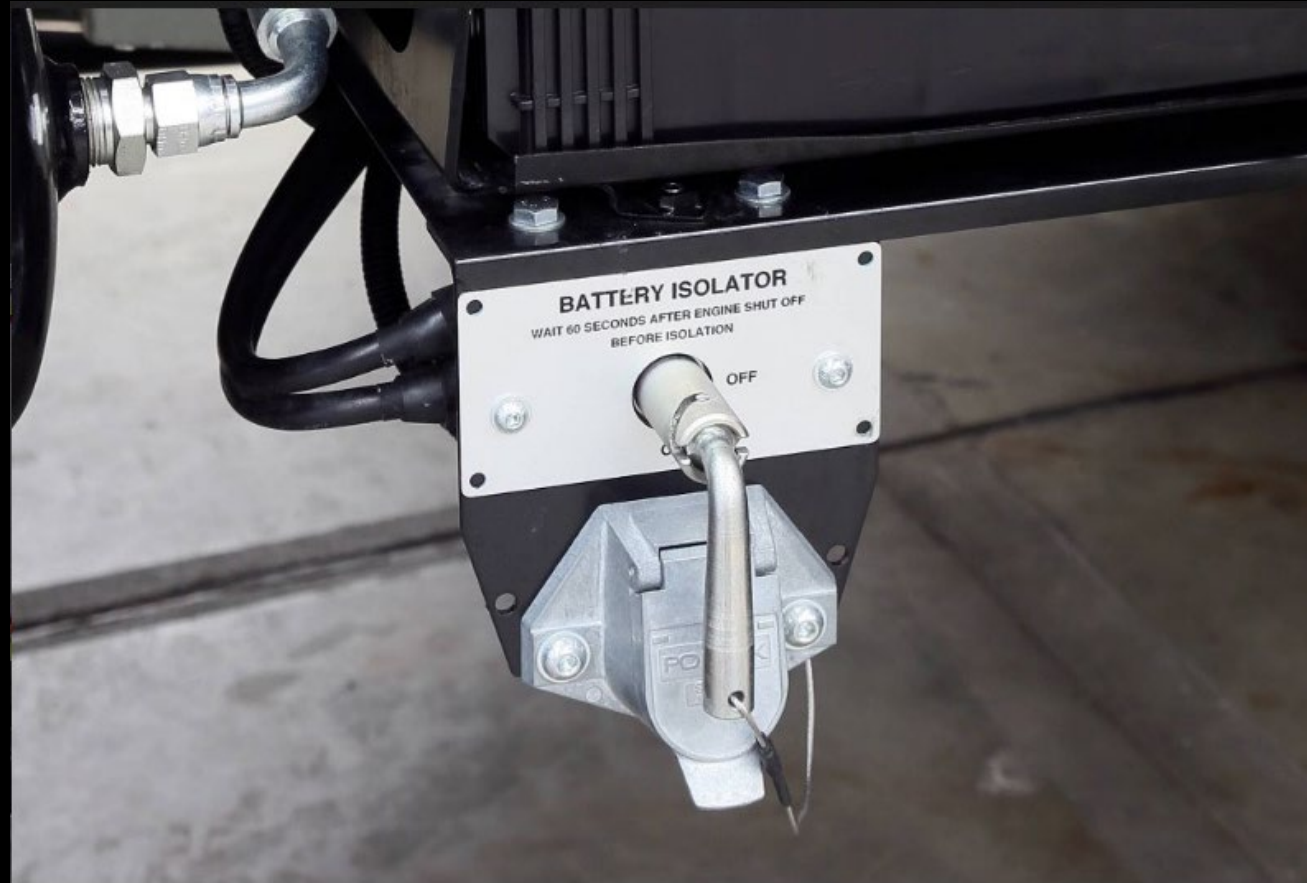
Aux pump controls



Auxiliary Pump Controls – Pump can be started and throttle controlled from this location as well as in cab and main control at rear.



Battery isolation switch



Battery Isolator & Vehicle charging point – Please Wait 60 seconds after engine shut off before isolating to prevent engine check light faults.



Front view





Monitor



Monitor – Specifically designed for NSW RFS Appliances

www.youtube.com/watch?v=mVbjfF... →



Driving lights



Driving Lights - Standard fitting to all current model appliances for increased driving safety



Front & rear cameras



Front facing camera – viewable from vehicle media display along with rear/reversing camera.



The cabin





Status Panel not yet operational





Monitor Controller





Monitor Operation





- Youtube:
- <https://www.youtube.com/watch?v=mVbjfF7iHE8&list=PLjkbq8HSLuoVZOQm5S0SKStBnatolhSL1&index=6>





Status Panel Fact Sheet



**NSW RURAL FIRE SERVICE**


Status Panel Overview Fact Sheet

Once a District goes live with CAD, the status panels in their vehicles will also become fully operational. This means that status updates initiated through the Status Panels will be reflected in the CAD system (Vision 5)

What is a Status Panel?

- The RFS is finalising the installation of Status Panels in the NSW RFS Operational Fleet. These will be installed by the time your district is scheduled to go-live with CAD.
- At this stage, you will use status panels **in conjunction with the radio network**, to indicate the status and availability of a resource (i.e. vehicle)
- Over time, Status Panels will **minimise voice traffic**, ensuring the radio is available for critical or urgent messages. Additionally, the information provided via Status Panels will be integrated with downstream operational systems (e.g. BIRS and ICON)
- Having an accurate Resource Status (via your Status Panel or the radio network) is essential to ensure CAD can recommend the most appropriate appliances based on their availability, capability and proximity

The below diagram outlines the meaning of each button on the status panel





- 1. Responding:** Vehicle is mobilised and on the way to scene of incident
- 2. On Scene:** Vehicle has arrived at scene of incident
- 3. Available:** Vehicle is on air and ready to immediately respond to an incident with the appropriate crew
- 4. Not Available:** Vehicle is not able to be assigned to an incident (e.g. due to insufficient crew not on board)
- 5. At station:** Vehicle is closed at the station and unmanned (i.e. off air) – members are available for regular callout, if required
- 6. Emergency:** Vehicle is in a state of duress. The Emergency button **must only be used when there is immediate danger to the lives of the crew.**

Important things to note:

- Status panels will **only work within GRN coverage areas**
- If you **press available** on the Status Panel, you are signalling that you are **ready and available for a response**. You may be dispatched and need to be ready with the appropriate crew
- If you **press Emergency**, once pressed, this will trigger automated responses in a number of systems (such as AVL and ICON), providing greater situational awareness
- Members must not forget to provide their SITREPs** via radio

Travelling outside of your home District


- Regardless of whether you are using your Status Panel or not, **whenever a centralised dispatch vehicle is travelling or operating outside of their home district, they need to switch to the local district's radio channel**
- A list of channels can be found in the **District Operational Channels List**

**NSW RURAL FIRE SERVICE**


Status Panel Overview Fact Sheet

How do I use the Status Panel?


Please refer to the below 'quick start' guide




To send a status update, press the appropriate button and it will **glow yellow** to show that the status update has been queued



When the status has been successfully **sent**, the button will **glow green** for up to 5 minutes.




When the keypad has been idle for **5 minutes**, the keypad status buttons will **glow white**.




To send an emergency alert, **push and hold the orange emergency button until it flashes**. To cancel the alert, push and hold the button until it stops flashing

ERROR CONDITIONS



The Keypad buttons **glow red** when the radio is not on a GRN channel, the radio is out of range or the radio is still powering up.
No status updates can be sent at this time.
To fix this condition, **ensure the radio is switched to a GRN channel** and wait for it to be within radio range



The Keypad buttons **flash red** when the keypad can't communicate with the radio.
No status updates can be sent at this time.
To fix this condition, **check the cable between the keypad and the radio is connected properly**, then turn the radio off then on again. Contact technical support if this problem persists.

STATUS PANEL



Controls






Diesel Particulates Control







Diesel Particulates Fact Sheet





**NSW RURAL FIRE SERVICE**

EXHAUST DPD REGENERATION REQUIREMENTS

Isuzu FTS 139-260, FVZ 260-300 & FTR150-260January 2018 – Version 2

All new model Isuzu trucks are equipped with a Diesel Particulate Diffuser (DPD) which is a legal requirement in order to meet current and future emission laws.

In the future all new trucks will have a similar system.

The DPD contains a filter that captures particulate matter. The filter will be automatically regenerated (cleaned) at regular intervals, although may require manual regeneration under certain conditions.

Automatic Regeneration

When the **Green DPD Automatic Regeneration** light is illuminated in the small Multi Information Display (M.I.D) screen contained within the dashboard, the DPD is performing an automatic regeneration. During this process **No** additional operator input is required and **No** operation of the DPD switch is required. During automatic DPD regeneration the vehicle engine should **not** be shut down unless absolutely necessary.

Note: During DPD regeneration, additional noise and white smoke may be emitted from the vehicle exhaust. This does not indicate a fault.

Manual Regeneration

If the flashing **Amber Manual Regeneration** DPD light is illuminated within the **M.I.D** screen contained in the dashboard, this indicates that a manual regeneration is required and should be performed as soon as practically possible.


Manual regeneration should be performed in a safe clear area at the completion of fire fighting activities.

To initiate manual regeneration locate the vehicle in a clear area ensuring no combustible material is directly obstructing the exhaust outlet. Engage the park brake and press the DPD switch located at the left of the steering column for three seconds. The amber DPD dashboard light should now be continuously illuminated indicating manual regeneration is being performed.

DPD regeneration is normally completed within fifteen to twenty minutes. On completion of DPD regeneration the amber DPD dashboard light will go out and normal driving is then possible.

Note: Under no circumstances should the vehicle be left unattended during DPD regeneration.

If for unavoidable reasons the vehicle needs to be moved during manual DPD regeneration, push the DPD switch again. The amber DPD dashboard light will begin to flash indicating DPD regeneration has ceased. The vehicle may then be driven and manual DPD regeneration should be re-instigated as soon as practically possible.

For further information, please contact Engineering Services team on 8741 4980 or email Engineering@rfs.nsw.gov.au

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NSW RURAL FIRE SERVICE – FACT SHEET

Exhaust Facts Sheet



Radio APX8500



To Switch the Radio On/Off

- Short Press on Power button to turn radio on.
- Long press (1 second) on Power button to turn radio off. LED Indicator may flash red as radio disconnects from Network.

To Make a Voice Call

Check that the correct channel is selected
Hold in the PTT button and if on GRN wait for the tones:
3 quick, high beeps: network connection established → talk
Repeated, low beeps: network is busy → hold PTT button, wait in queue until you hear 3 quick, high beeps, then talk
Constant low tone: out of range → move to new location and retry.
Always hold PTT in while speaking and release to listen.

Menu Option Selection

- Use the or navigation buttons as necessary to search for the required menu option (see other side for available options).
- Press the menu select key directly under the desired menu option.
- If sub-menu options display, use the or navigation buttons to find the desired sub-menu option.
- Confirm selection by pressing the Home key .

Display Symbols

The following icons may appear on either the main display or top display. Note: this is not a complete list.

	Receiving a call/data
	Transmitting a call/data
	Radio is using voice scan on a PMR network
	GRN Network Signal strength
	On: Direct radio-to-radio communication Off: Connected through a repeater or network
	On: Location feature enabled, and GPS location available Off: Location feature disabled Blinking: Location feature enabled, but GPS location unavailable/updates
	On: Radio is ready for data services Off: Radio is not ready for data services Blinking: Data registration services have failed
	Data activity is present
	Indicates High Transmit Power - cannot be changed

Quick Reference Guide

APX™ 8500 Mobile Radio

O3 Model Controller Microphone Layout

Change Zone

- Press the soft key under **ZnDn** to scroll down through the Zones.
- Press the soft key under **ZnUp** to scroll up through the Zones.

(See other side for list of Zones)

Change Channel via Numeric Keypad

- Press the menu select key directly under **Chan** for numeric Channel entry. The Channel Name will flash.
- Enter the channel number using the numeric keypad, then press the Home key .
- The selected channel will appear and connect.

Change Channel via Mode up/down Buttons

- Press Mode up arrow to step channel upwards.
- Press Mode down arrow to step channel downwards.

Menu Option

Menu Option	Function
ZnDn	Scroll down through the Zones
ZnUp	Scroll up through the Zones
Chan	Select a channel via the numeric keypad
Call	Radio ID Identification (GRN Only)
Info	Show radio info
Loc	Display GPS coordinates and status
Ont	Show and edit contacts
Sis	Send a GRN status (for future use)

Out-of-range (for GRN Channels Only)

Where there is no GRN network coverage, an out-of-range indicator will display in red on the display, and the radio will sound a low tone repeatedly

Emergency Calls – GRN Only

To send an EMERGENCY call:
Firmly hold down the orange emergency button for 1 second

To cancel/exit an EMERGENCY call:
Firmly hold down the orange button for 2 seconds until a long tone is heard.

Always remember to:

- Wait at least 1 second after pressing the PTT before starting to speak
- Hold the microphone directly in front of your mouth at about 5cm (2 inches) distance
- Speak in a loud clear voice, but do not shout

Shortcut to Main District Channel

Regardless of which Zone and Channel you currently have selected on the radio, if you push and hold the Home button for 2 seconds, the radio will change back to the main Channel used in your District, Team or Zone.

Menu Option	Function
ZnDn	Scroll down through the Zones
ZnUp	Scroll up through the Zones
Chan	Select a channel via the numeric keypad
Call	Radio ID Identification (GRN Only)
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Loc	Display GPS coordinates and status
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Zones	Zone No	Prefix	Name	Detail
1	N	REGION NORTH	Region North PMR and GRN Channels	
2	S	REGION SOUTH	Region South PMR and GRN Channels	
3	E	REGION EAST	Region East PMR and GRN Channels	
4	W	REGION WEST	Region West PMR and GRN Channels	
5	TG	TACTICAL	State-Wide and Special Operations GRN Channels	
6	SIMPLEX	SIMPLEX	Simplex Channels	
7	ESO or GL	ESO	Emergency Service and Government Agency Liaison GRN, Repeater and Simplex channels	
8	LD	LIASON DGLT	National Liaison Digital Repeater and Simplex Channels	
9	LA	LIASON ANLG	National Liaison Analog Repeater and Simplex Channels	
10	F	OLD FIELD OPS	Old RFS Simplex and Portable Repeater channels	
11	P	ANLG PMR	Analog PMR Channels (Far West / Barrow-Darling)	
12	V	VRA	VRA Coordination GRN Channels	
13	ESA	ACT ESA	ACT Emergency Liaison GRN Channels	
14	OLD OFES	OLD OFES Analog PMR, Digital Simplex and Repeater channels		
15	SES STATE COOR	SES State Coordination Channels		
16	SES FIELD OPS	NSW SES Simplex and Portable Repeaters		
17	SES SOUTH	SES Channels for ISR, LAR, SHR, SNR, SSR, SWR, MER, MYR		
18	SES NORTH GRN	SES GRN channels for CNR, CWR, HJR, MNR, MQR, NMR, NWR, RTR, FVR		
19	SES NORTH PMR	SES PMR channels for CNR, CWR, HJR, MNR, MQR, NMR, NWR, RTR, FVR		
20	SES SOUTH PMR	SES PMR sites within MER and MYR		
21	WNSW	WATER NSW (Sydney Catchment) GRN Liaison Channels		
22		Version	Displays which version of channel info is programmed in radio	

User-programmable Memory Buttons

Buttons 1, 2 and 3 on the numeric keypad can be used to quickly access your favourite Channels.

To store: First, select the Zone and Channel that you wish to store, then push and hold on 1, 2 or 3 until the radio beeps. Note: this will overwrite any previously-stored Channel on that button.

To recall: Short-press button 1, 2 or 3 to change to the previously-stored Zone and Channel.

Shortcut to Main District Channel

Regardless of which Zone and Channel you currently have selected on the radio, if you push and hold the Home button for 2 seconds, the radio will change back to the main Channel used in your District, Team or Zone.

Version 1, February 2019

NSW RURAL FIRE SERVICE

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Rear Cabin – Blankets 1 time use





Left View





Pumps



Auxiliary Pump lockers – Fitted with sliding trays for the Portable pump as well as quick fill pump or generator depending upon Brigade requirements.

[FIRE FIGHTING HYDRAULICS →](#)



Hose cabinet



Standard Equipment Locker – The standard locker has adjustable shelves and a maximum total locker load of 70KG. This allows the Brigade to tailor specific equipment to local requirements.



65mm Inlet



Hydrant Fill – 65mm inlet direct to tank including one way valve for tank filling. Coupling is anodised green to indicate an inlet point.



Rear View



LEFT SIDE



LEFT REAR



RIGHT SIDE



RIGHT REAR





Electric Hose Reel Retractor



Electric Rewind Hose Reel – Single person operation for deployment and recovery of live reel hose.



Tank to Pump Valve



Tank to Pump Valve – Simple lever operation to select if water is supplied from the tank to the pump. Used as part of standard droughting procedures.



Pump control panel





Water Level Indicators



- Electric gauges in cabin and on rear panel
- Float on the sight tube





Training Videos



- [Operating NSW RFS Category One Fire Tanker with Automatic Transmission](#)
- [NSW RFS Appliance Crew Protection Overview](#)
- [NSW RFS Pump Panel Overview](#)
- [NSW RFS Appliance Lights & Sirens Overview](#)
- [NSW RFS Appliance Electric Hose Reel Overview](#)
- [NSW RFS Quenchmaster Overview](#)
- [NSW RFS Appliance Monitor Overview](#)

Take a virtual tour of the new Cat 1 appliance

