



**Local Government  
Bush Fire Brigade  
Firefighting Appliances**

# **ESL BFS OPERATIONAL VEHICLES**

## **Introduction**

This summary describes the firefighting appliance types that are available to volunteer fire service brigades in Western Australia.

The appliance types are carefully considered as a result of lengthy consultation with all stakeholders and a full safety audit against best practice. Legislative requirements in relation to occupational health and safety, road safety and workplace safety within endorsed engineering specifications influence all aspects of design.

## **Appropriate Appliance Type**

The selection and allocation of appliance type must be based on a risk assessment of the brigade catchment area and be agreed to in principle by FESA and supporting Local Governments.

In general, appliance types fall within the response categories of:

- Wildfire Response
- Wildfire Response with Urban Defence
- Wildfire Response with Urban Offence (BA)

## **New or Refurbished**

This summary reflects only the type of appliances constructed as new. Brigades allocated refurbished appliances are not guaranteed an appliance within the design descriptions of this summary due to the limited availability of these types and the extensive history of type design and build up over the last 16 years.

## **Crew Cabs Versus Single Cabs**

FESA intends to build, wherever possible, crew cab appliances in the majority of the tanker range. This ensures additional ride on safety and protection for crew. Options for single cabs are only in the Light Tanker, Rural 1.4, 2.4, 4.4 Tanker and Broad Acre Tanker appliance types.

## **Further Information**

The descriptions of appliances and costs are only indicative as specifications and equipment suppliers may change from time to time. Contact your local FESA Office for further information.

For additional technical information, contact FESA Fleet & Equipment Services on 9337 0631.

## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Light Tanker</b>
Hazard Response	Wildfire Response
Vehicle Classification	Category 1
Purpose	Not considered as a primary response vehicle. Preferred as a second appliance to multi-functional brigade, and in high-risk semi urban areas for fast attack and difficult access.
Model	Normally Toyota Land Cruiser Land Rover Crew Cab available
Drive Capability	4WD
Cab/Crew	Normally single cab only. Crew cab available
Water Capacity	Approximately 550 litres
Pump Type	Normally Vanguard 9HP
Pump Capacity	Approximately 220l/m @ 7 bar
Pump Panel	FESA standard, near side
Hose Reels	1 x 19mm (30m) reel
Monitors	Nil
Hose	1 x 10m x 64mm collector 1 x 20m x 25mm delivery 1 x 10m x 25mm delivery
Foam System	'Around the pump' proportioner
Stowage Type	Basic Rural
General	Standard FESA design
Vehicle/Body Colour	Provided to Bush Fire Brigades in white



## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Rural 1.4 Tanker</b>
Hazard Response	Wildfire Response
Vehicle Classification	Category 5
Purpose	Suitable as a sole brigade appliance or in support in high-risk semi urban areas for fast attack and difficult access. Versatile rural appliance.
Model	Crew Cab: Mitsubishi Canter Single Cab: Mitsubishi Canter / Isuzu NPS 300
Drive Capability	4WD
Cab/Crew	Single (2) and Crew Cab (6) options
Water Capacity	Approximately 1,000 litres Crew Cab Approximately 1,500 litres Single Cab
Pump Type	Vanguard 18hp Auxiliary
Pump Capacity	380l/m @ 7 bar (70l/m @ 10 bar)
Pump Panel	FESA standard, near side
Hose Reels	2 x 19mm (30 metres)
Monitors	1 Monitor, two positions (Near and Off side)
Hose	1 x 10m x 64mm collector length 1 x 20m x 25mm delivery 1 x 10m x 25mm delivery
Foam System	'Around the pump' proportioner
Stowage Type	Basic Rural
General	Standard FESA design
Vehicle/Body colour	Provided to Bush Fire Brigades in white



## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Rural 2.4 Tanker</b>
Hazard Response	Wildfire Response
Vehicle Classification	Category 8
Purpose	Capable wildfire response vehicle, suitable for wildfire fighting in most areas of the state with limited structural defence capability.
Model	Normally Isuzu FSS 550 or Hino 5Z Cab Chassis. 10,000 Kg GVM
Drive Capability	4WD
Cab/Crew	Single (2/3) or Crew Cab (6) option
Water Capacity	Approximately 2,700 litres Single Cab Approximately 2,200 litres Crew Cab
Pump Type	Hale AP50 (Live Drive PTO)
Pump Capacity	1,800 litres per minute
Pump Panel	FESA standard, near side
Hose Reels	1 x 25 mm (30m) electric rewind 1 x 19mm (50m) electric rewind
Monitors	1 monitor, two positions (Near and off side)
Stowage Type	Rural stowage kit
General	Standard FESA design
Vehicle/Body colour	Provided to Bush Fire Brigades in white



## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Urban 2.4 Tanker</b>
Hazard Response	Wildfire/Urban Defensive
Vehicle Classification	Category 7
Purpose	Capable of responding to wildfire but with capability to pump reticulated water in structural defence. To be considered for outer urban areas and complex towns.
Model	Normally Isuzu FTS 750 or Hino 8Z 4x4 Cab Chassis 13,000Kg GVM
Drive Capability	4WD
Cab/Crew	Crew Cab only
Water Capacity	Approximately 3000 litres
Pump Type	Waterous CLVK (Live Drive PTO)
Pump Capacity	1,900 litres per minute
Pump Panel	FESA standard, nearside location
Hose Reels	1 x 25mm (30m) electric rewind 1 x 19mm (50m) electric rewind
Monitors	1 monitor, two positions (near and off side)
Hose	6 x 64mm x 30m 6 x 38mm x 30m
Stowage Type	Basic Urban
General	Standard FESA design
Vehicle/Body colour	Provided to Bush Fire Brigades in white
Option	Breathing Apparatus where approved



## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Urban 3.4 Tanker - Can be considered on special request</b>
Hazard Response	Wildfire/Urban Defensive
Vehicle Classification	Category 10
Purpose	Capable of responding to wildfire but with capability to pump reticulated water in structural defence. To be considered for outer urban areas and complex towns.
Model	Normally Isuzu FTS 750 or Hino 8Z 4x4 Cab Chassis 13,000Kg GVM
Drive Capability	4WD
Cab/Crew	Crew Cab only
Water Capacity	Approximately 3000 litres
Pump Type	Waterous CLVK (Live Drive PTO)
Pump Capacity	1,900 litres per minute
Pump Panel	FESA standard, nearside location
Hose Reels	1 x 25mm (30m) electric rewind 1 x 19mm (50m) electric rewind
Monitors	1 monitor, two positions (near and off side)
Hose	6 x 64mm x 30m 6 x 38mm x 30m
Stowage Type	Basic Urban
General	Standard FESA design
Vehicle/Body colour	Provided to Bush Fire Brigades in white
Option	Breathing Apparatus where approved



## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Rural 4.4 Tanker</b>
Hazard Response	Wildfire Response
Vehicle Classification	Category 11
Purpose	Applicable as a stand-alone responding appliance or in support of smaller appliances. Large water capacity for remote areas.
Model	Normally Isuzu FTS 750 or Hino 8Z 4x4 Cab Chassis. 13,000 Kg GVM
Drive Capability	4WD
Cab/Crew	Single and Crew Cab
Water Capacity	Approximately 4,000 litres Single Cab Approximately 3,500 litres Crew Cab
Pump Type	Hale AP50 (Live Drive PTO)
Pump Capacity	1800 litres per minute
Pump Panel	FESA standard, near side
Hose Reels	1 x 25mm (30m) electric rewind 1 x 19mm (50m) electric rewind
Monitors	1 monitor, two positions (near and off side)
Stowage Type	Basic Rural
General	Standard FESA Design. Size of appliance should be considered.
Vehicle/Body colour	Provided to Bush Fire Brigades in white





## ESL BFS OPERATIONAL VEHICLES

<b>Appliance Name</b>	<b>Broad Acre Tanker</b>
Hazard Response	Wildfire Response
Vehicle Classification	Category 6
Purpose	Applicable to rural, pastoral, agricultural areas with occasional wildfire incidents. Simple to operate appliance.
Model	Normally Isuzu FSS 550 or Hino 5Z 4x4 Cab Chassis 10,000 Kg GVM
Drive Capability	4WD
Cab/Crew	Single Cab only x 3 crew
Water Capacity	2,700 litres
Pump Type	Hatz Gaam
Pump Capacity	Approximately 900 litres per minute
Pump Panel	Rural modified, nearside location
Hose Reels	1 x 25mm (50m) electric rewind 1 x 19mm (30m) manual rewind
Monitors	1 monitor, two positions (near and off side)
Hose	2 x 38mm x 30m
Stowage Type	Basic Rural
General	Wildfire response only. Replaces 'slip on' tankers.
Vehicle/Body colour	Provided to Bush Fire Brigades in white



## ESL BFS OPERATIONAL VEHICLES

### Type and Design in Construction

Final specifications to be confirmed as prototype is in development

Appliance Name	Water Carrier
Hazard Response	Wildfire Support
Purpose	Designed for provision of water resource support in outer urban areas with high asset risks and in support of heli-tank operations. Also available for locations where smaller tankers are required for response with limited access to water.
Model	Isuzu FVZ 1400
Drive Capability	6 x 4WD
Cab/Crew	Single Cab only x 2 crew
Water Capacity	Approximately 7,000 litres 9,000 litres
Pump Type	Waterous CLVK
Pump Capacity	1800 lpm @ 10 bar
Pump Panel	FESA Standard
Hose Reels	1 x 25mm (30m) reel 1 x 19mm (30m) manual rewind
Monitors	Nil
Stowage Type	Basic Rural
General	Standard FESA Design
Vehicle/Body colour	Provided to Bush Fire Brigades in white

