

# OPERATIONAL RESEARCH AND DEVELOPMENT



## Newsletter // November 2021

### // Monthly Highlights

#### What has been happening?

- Flood Rescue Boat allocations.
- Ministerial Fleet Launch (see p3).
- Heavy Tanker Functional Specification review meeting.
- PAT workshops for 12 Person Bus and Operational Trailers.

#### Next Steps

- Urban Pumper Type 1 and Type 2 in-field user validation trials at DFES Academy.
- 4.4 Broadacre Tanker Asset Acceptance and Roadshow planning
- Heavy Tanker Functional Specification Approval and Request to Market.

### Flood Rescue Boats (FRB)

We can confirm that Flood Rescue Boat allocations are underway with five SES units located at Canning, Kununurra, Collie, Murray and Busselton recently receiving new vessels.

The FRB Project Advisory Team (PAT) is comprised of members from DFES and SES units geographically spread across the Metro, South West, Lower South West, Midwest Gascoyne, Pilbara and Kimberley regions.

The expertise and dedication of our PAT members has made the delivery of FRBs of this calibre and capacity possible.



Within days of the FRB handovers SES units from Collie, Murray, Australind and Bunbury joined together to conduct a training day on the beautiful Lake Kepwari in Collie. This not only provided familiarisation and valuable training in flood boat operations, but was also a fabulous day of inclusion and camaraderie for all those involved.



## Asset Design and Delivery Model



## Operational Research and Development

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## Status Update November 2021

Fleet Project Stream	Current Status	Next Steps
<b>Concept Design</b>		
<b>Medium Urban Tanker (name TBC)</b> PAT Chair: Adrian Hamill	PAT participation in 4.4 Broadacre mobility trials held 14/5 as proof-of-concept activity. OCD revised with concept illustrations.	PAT Concept Acceptance meeting.
<b>Incident Control Vehicle</b> PAT Chair: Gary Baxter	Concept Development in-progress.	Safety Risk Assessment and Proof of Concept Activity
<b>Livery Developments</b>	For limited evaluation through GRU First of Type builds. Proof-of-concept livery prototype completed and exhibited at WAFES conference.	Concept Acceptance.
<b>Bushfire Fleet Mobility</b> PAT Chair: Brad Delavale	Central Tyre Inflation (CTI) PoC evaluation undertaken. Super singles prototype modifications seeking road approvals. Evaluation and trial period extended to June 2022.	CTI Proof of concept report and PAT review. Super Singles PoC testing.
<b>12 Person Bus</b> PAT Chair: Matt Reimer	OCD completed. PAT review meeting held 25/11 with recommendation to progress to acquisition. Progressed for approval.	Functional Specification Development.
<b>Operational Trailers</b>	General Rescue and Logistics Trailer User Needs and Concept development PAT workshop held 25/11.	RCR Trailer User Needs and Concept development PAT workshop. Populate OCD for PAT reviews.
<b>Manager Command and Control Vehicle</b> PAT Chair: Shaun Champ	User Needs Analysis workshop held 6/8.	Concept Development.
<b>Acquisition</b>		
<b>CAPA</b> PAT Chair: Stuart Wade	Functional Specification approved.	Acquisition activities.
<b>Heavy Tanker</b> PAT Chair: John Carter	PAT Concept Acceptance meeting held and concept recommended to progress to Acquisition. Functional Specification PAT review meeting held 24/11. Procurement planning activities underway.	Functional Specification Approval. Request to Market.

Fleet Project Stream	Current Status	Next Steps
<b>Asset Acceptance</b>		
<b>Light Tanker</b> PAT Chair: Andrew Spry	Asset Acceptance completed. Vehicle allocation underway.	Walk Around video.
<b>1.4 Tanker</b> PAT Chair: Murray McBride	Practical Evaluation of pump options held 24/6. Technical negotiations underway.	Complete Technical Negotiation and initiate first-of-type builds.
<b>4.4 Broadacre Tanker</b> PAT Chair: Phil Hay	PAT acceptance meeting held 26 Oct. Baseline specification being finalised.	Complete DORM. Asset Acceptance. Roadshow planning for late January (delayed due to harvesting).
<b>General Rescue Utility</b> PAT Chair: Jon Kirk	Urban GRU configuration Asset Accepted for adoption. Allocation to SES Units underway. New DMax GVM modification for 3,695kg estimated to enable MY21 vehicle to comply with load limits including front winch mounting. 1 x Urban and 1 x Remote configuration vehicles ordered to confirm.	First of type MY21 DMax builds.
<b>General Rescue Truck</b> PAT Chair: Matt Reimer	DORM published. Asset Acceptance Completed.	Begin vehicle allocation. Formal project close.
<b>Flood Rescue Boat</b> PAT Chair: Graham Sears	Asset Accepted. 5 FRB allocated to SES Units.	Formal project close.
<b>Urban Pumper Type 1</b> PAT Chair: Warren Male	User Validation follow up activity for lighting and vehicle handling held 21/9. DORM updated. UPT1 provided to DFES Academy 29/11 for in-field user validation.	Finalise baseline specification. Complete DORM. PAT acceptance.
<b>Urban Pumper Type 2</b> PAT Chair: Andrew Wright	User Validation follow up activity for lighting and vehicle handling held 21/9. DORM updated. UPT1 provided to DFES Academy 29/11 for in-field user validation.	Finalise baseline specification. Complete DORM. PAT acceptance.
<b>2.4 Broadacre</b> PAT Chair: Torben Bendtsen	First of Type Build complete. Initial inspection underway prior to transport to Perth.	Full Inspection and controlled testing.
<b>Medium Logistics Truck</b>	Contract awarded.	Build vehicles.



Pictured in black and white to the far left is the former Murray SES FRB depicted in a combined training exercise held on 24 September 1988. This same FRB was still in operation in 2021 (33 years later).

Pictured in colour to the left is the original and now decommissioned FRB alongside the newly allocated 2021 vessel.



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## Equipment Project Streams

Below please find a snapshot of active equipment developments

Equipment Project Stream	Current Status	Next Steps
Concept Design		
Self Contained Breathing Apparatus Coordinator: Matt Wakeling	Concept Development.	Concept Acceptance
Height Safety System PAT Chair: Matt Watson	Concept Development workshop held 28/8 including proof-of-concept activity relevant to storm response.	Structure Fire response proof-of-concept activity. Document storm response concept for approval and progression
Road Crash Rescue Equipment Coordinator: Nathan Wilcock	Concept Development.	Concept Acceptance.



The Ministerial Fleet Launch provided a showcase of appliances including the Light Tanker, 4.4 Broadacre, General Rescue Utility and Flood Rescue Boat, and involved a controlled bushfire response simulation. Front and centre were the passionate PAT members instrumental in the innovation journey and the dedicated Fleet Delivery Team who are responsible for delivering every new appliance across the state to your station, brigade, group or unit.

Pictured above (left to right): Fleet Delivery Team - Eddy Jakovich, Ray Penfold, Warren King, Colin Proctor; PAT Members - Matt Reimer, Kingsley Scott, Gordon Hall, Martin Seward, David Worth

### Minister's Fleet Launch



"I love seeing the look on people's faces when they get a new fire truck. I get a buzz out of that... and that's the truth."

Ray Penfold, Fleet Design and Delivery Officer