

LineupBoard Overview



LineupBoard Overview

- Easy-to-use tool for planning equipment and workforce allocations on a per-shift basis
- Supporting features include overtime management, reporting, and performance boards
- Drag and drop, web-based interface
- No special software needed for each computer
- Proven effectiveness in production daily at Moolarben since early 2013
- Regular improvements commissioned from site



Main Lineup Display

Lineup - Wednesday, 24 February 2016 - Night - Primary

COALING	WASTE	WASTE	TRAINING
<p>CC2801 Coal WIP P209</p> <p>SIW 12</p> <p>W07247</p> <p>DT 207</p> <p>DT 209</p> <p>DT 224</p> <p>DT 229</p>	<p>CC2195 Coal WIP P209</p> <p>EX 14</p> <p>DT 206</p> <p>DT 208</p> <p>DT 210</p> <p>DT 214</p> <p>DT 216</p> <p>DT 218</p> <p>DT 224</p> <p>DT 226</p>	<p>CC21101 Coal WIP P209</p> <p>EX 10</p> <p>DT 207</p> <p>DT 205</p> <p>DT 217</p> <p>DT 215</p> <p>DT 219</p> <p>DT 221</p> <p>DT 223</p> <p>DT 225</p> <p>DT 227</p>	<p>CC2821 Coal WIP P209</p> <p>EX 10</p> <p>DT 204</p> <p>DT 201</p> <p>DT 203</p> <p>DT 205</p> <p>DT 207</p> <p>DT 209</p> <p>DT 211</p> <p>DT 213</p> <p>DT 215</p> <p>DT 217</p> <p>DT 219</p> <p>DT 221</p> <p>DT 223</p> <p>DT 225</p> <p>DT 227</p> <p>DT 229</p>

Equipment People Locations Tasks EV Plan Delays

Available Workers

- Green, Wayne H ONEKEY
- Harding, Ken M FA
- Hartill, Andrew M FA (M)
- Crabtree, David M FA (M)
- Gordon, Emily S (NR)
- Hayden, Kelly M (M)
- Green Crew**
- (DRL) Baker, Jesse M
- (DRL) Gould, Michael M
- Baker, Jeff M FA
- Frederick, Catherine M
- Andrews, Gary M
- Allen Sr, Robert H ONEKEY
- Bell, Anthony M FA
- Black, Stephen M
- Duckley, Wendy M
- Chamberlain, Steven M LRT
- Collins, Blain H ONEKEY
- Edwards, Jeremy M FA
- Care, Ben M FA
- Coold, Nick M
- Hart, Leighton M
- Hayberger, Leonard H ONEKEY
- Kerr, Rick M
- Lewis, Dallas M FA
- Martin, James H
- McAlpine, Ian H ONEKEY (M)

Unexpected Absences

- Digger, Geoff M LRT

Workgroup Overview

COALING	
OC2/R/01 Coal WS2 EXUSH	
 Parker, David M-FA SHV-112	
 Floor Walsh, David M-ERT Floor Assist Coal W/DZ-352	
 Go Line Robertson, Shaun H-ONE DT-867	
 Go Line Nelson, Kevin H-ONE DT-222	
 Go Line Vasills, Tim M-FA DT-224	
 Go Line - Rejects to OC2 Merhi, Michael M Rejects DT-210	

Location

Workgroup Task

Different unit types composing a workgroup.

Operator assignment






General Comments

Alternative tasks for specific unit

Different tray/ fleet configuration for trucks clearly visible



Visual Cues

Workgroup 2	
OC1/3/08	
 EX-102	Griffiths, Rob LV-118
 DT-202	LV-118
 DT-206	Riley, Shane LV-118
 DT-207	Westwood, Robyn LV-118
 DT-205	Price, Darren LV-118

Truck DT-202 is does not have an operator

Truck is orange as a warning, as is the workgroup to which it belongs.


Unit and Workgroup colours:

- Green – Good to go
- Orange – Warning, please review
- Red – Major issue to resolve (breakdown etc.)



Equipment Hotspot

General Comment – Custom or preconfigured text


Equipment Icon		 PLANNED MAINTENANCE FROM 12AM	 LV-B2	Transport Allocation
Equipment Name	EX-104	 Ferguson, Daniel M-FA  Overburden Excavator	Operator Name	
			Task Assignment	

Planned Equipment Delays

Tyre Tracking

- Quickly see the tyres assigned to each truck to ensure correct assignment


Standard/ Short Haul



Hotseat OB
Wyllie, Joanne H-ONEKE

DT-204


Medium Haul



Hotseat OB
Crosswelll, Luke H-ONEK

DT-213

Long Haul

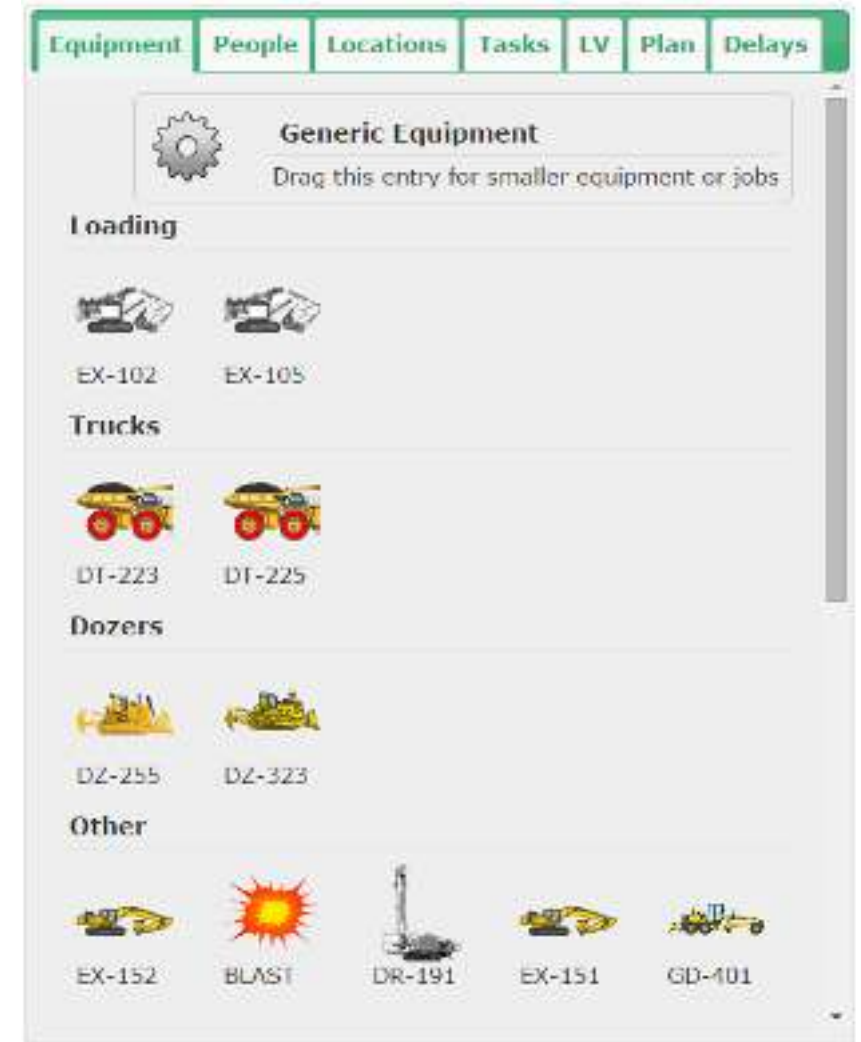


Hotseat OB
Gossage, Barry M-FA

DT-214

Available Equipment

- Equipment that is not allocated is available from the first tab
- Drag and drop equipment to allocate to workgroup
- Double click to return back to available equipment pool



Available Workers

- Clearly see who is available
- Ability to allocate non-rostered or overtime workers from other crews if they are called in
- Unexpected absences dragged to bottom right corner to track

The screenshot displays a software interface with a navigation bar at the top containing tabs for Equipment, People, Locations, Tasks, LV, Plan, and Delays. The main content area is divided into three sections:

- Available Workers:** Lists two workers: Green, Wayne H-ONEKEY and Harding, Ken M-FA.
- Absent Workers:** Lists four workers: Birchall, Andrew M-FA (AL), Condon, David M-FA (AL), Condon, Emily S (NR), and Hayden, Kelly M (AL).
- Green Crew:** Lists 20 workers in two columns, including (DRL) Baker, Issac M, (DRL) Gould, Michael M, Aitken, Jeff M-FA, Anderson, Catherine M, Andrews, Gary M, Aubertin, Robert H-ONEKEY, Bell, Anthony M-FA, Brack, Stephen M, Buckley, Wendy M, Chamberlain, Steven M-ERT, Collins, Rhys H-ONEKEY, Doherty, Jeremy M-FA, Gale, Ben M-FA, Gould, Mick M, Hart, Lachlan M, Holzberger, Leonard H-ONEKEY, Korn, Ricki M, Lawry, Dallas M-FA, and Martin, Laura S, McElligott, Jed H-ONEKEY (AL).

Below these sections is a separate box titled **Unexpected Absences**, which contains one entry: Duggan, Scott M-ERT.



Locations

- Prepopulated list of general locations
- Select specific dig locations as required

Equipment People **Locations** Tasks LV Plan Delays

Pit: OC1 ▼ Strip: 1 ▼ Block: 01 ▼

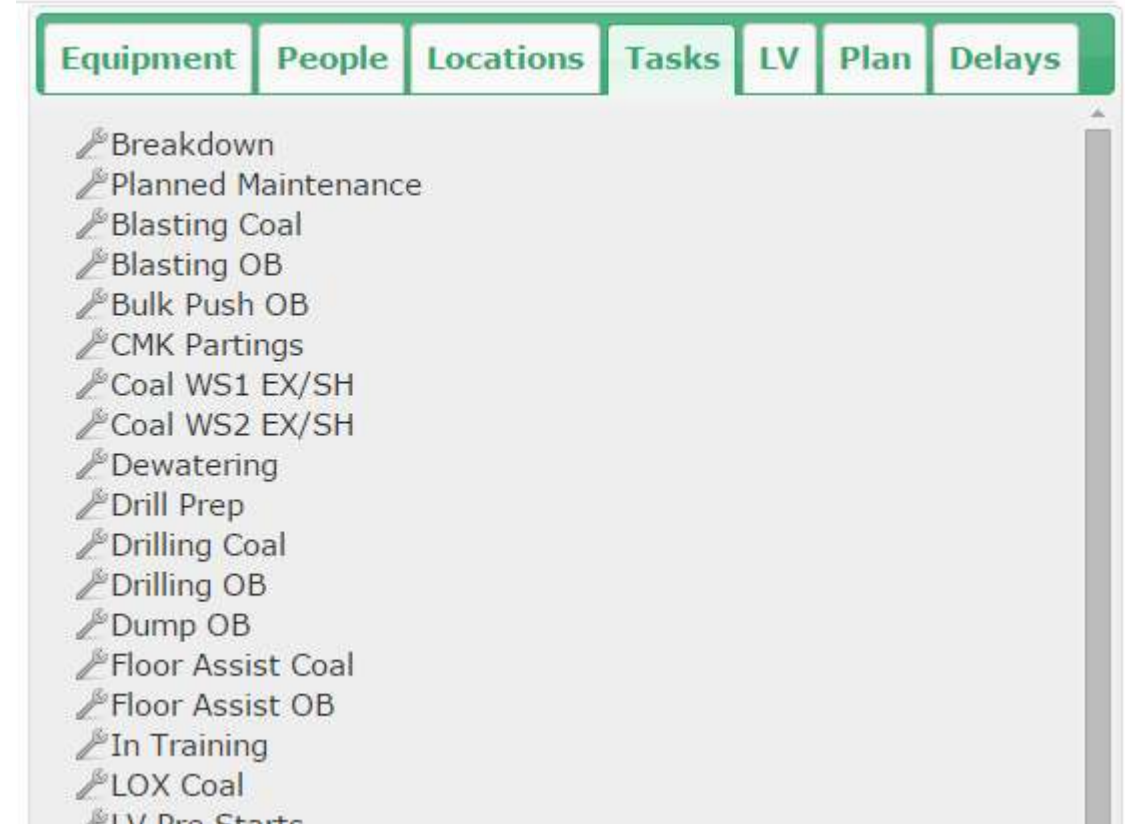
Create Location

Active Locations

- 📍 OC2/11/01
- 📍 OC2/8/01
- 📍 OC4/1/05
- 📍 Fuel Farm
- 📍 Go-Line
- 📍 Reject Bin
- 📍 ROM
- 📍 Workshop

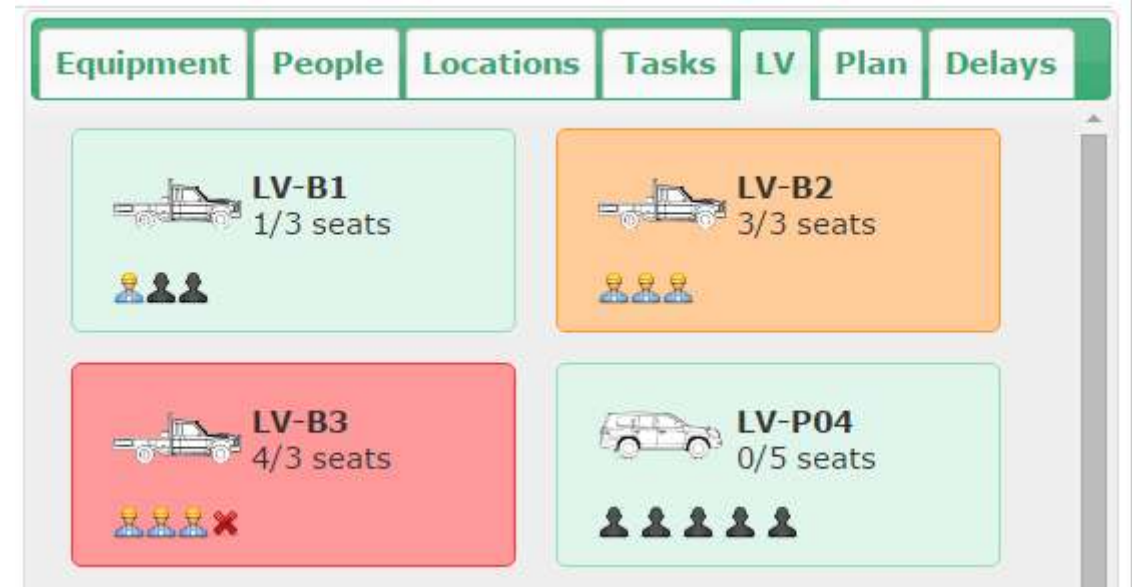
Task Allocations

- Allocate a task to a workgroup or machine
- Reports back to specific cost centre for that task
- End of month cost report automatically generated



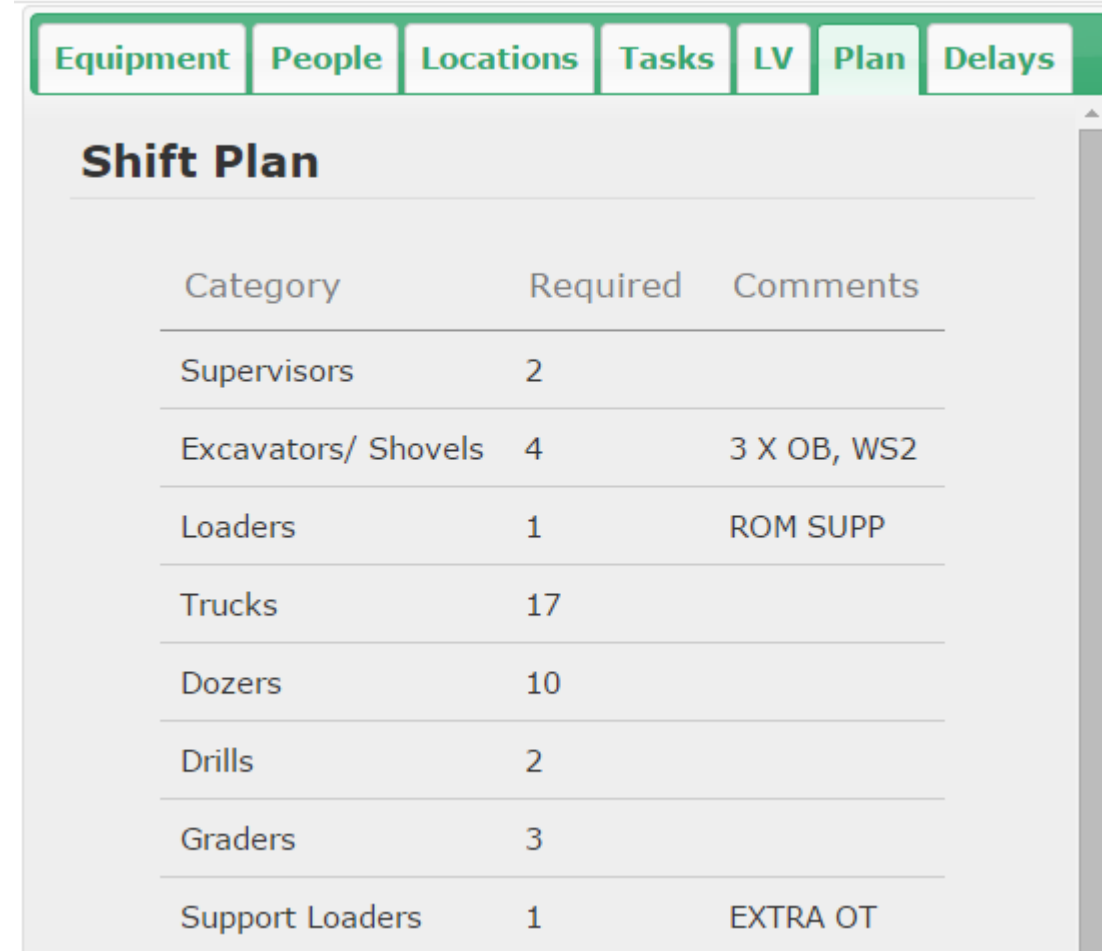
Light Vehicle Transport Allocation

- Track light vehicle transport allocations to ensure smooth shift start
- Green – spare space
- Yellow – full LV
- Red – Overallocated LV



Current Shift Labour Plan

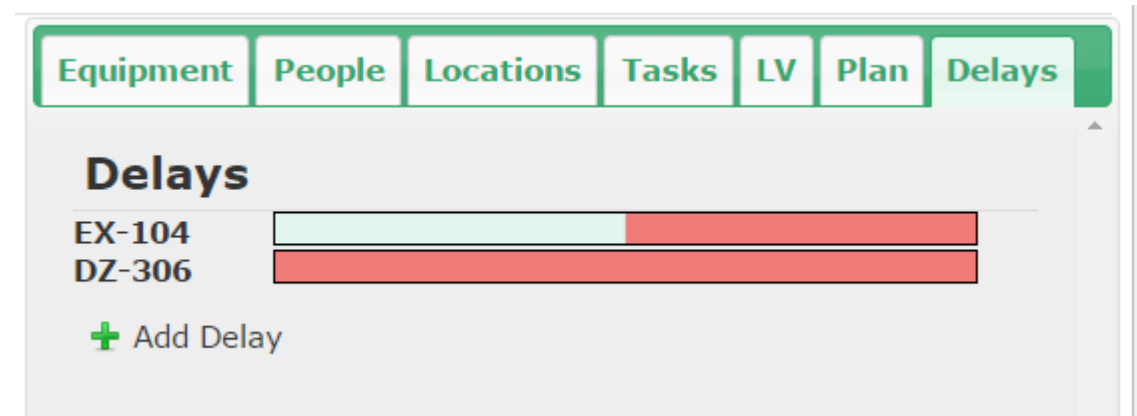
- Show the plan for the shift labour allocations
- Ties into labour planning workflow



Equipment	People	Locations	Tasks	LV	Plan	Delays
Shift Plan						
Category			Required	Comments		
Supervisors			2			
Excavators/ Shovels			4	3 X OB, WS2		
Loaders			1	ROM SUPP		
Trucks			17			
Dozers			10			
Drills			2			
Graders			3			
Support Loaders			1	EXTRA OT		

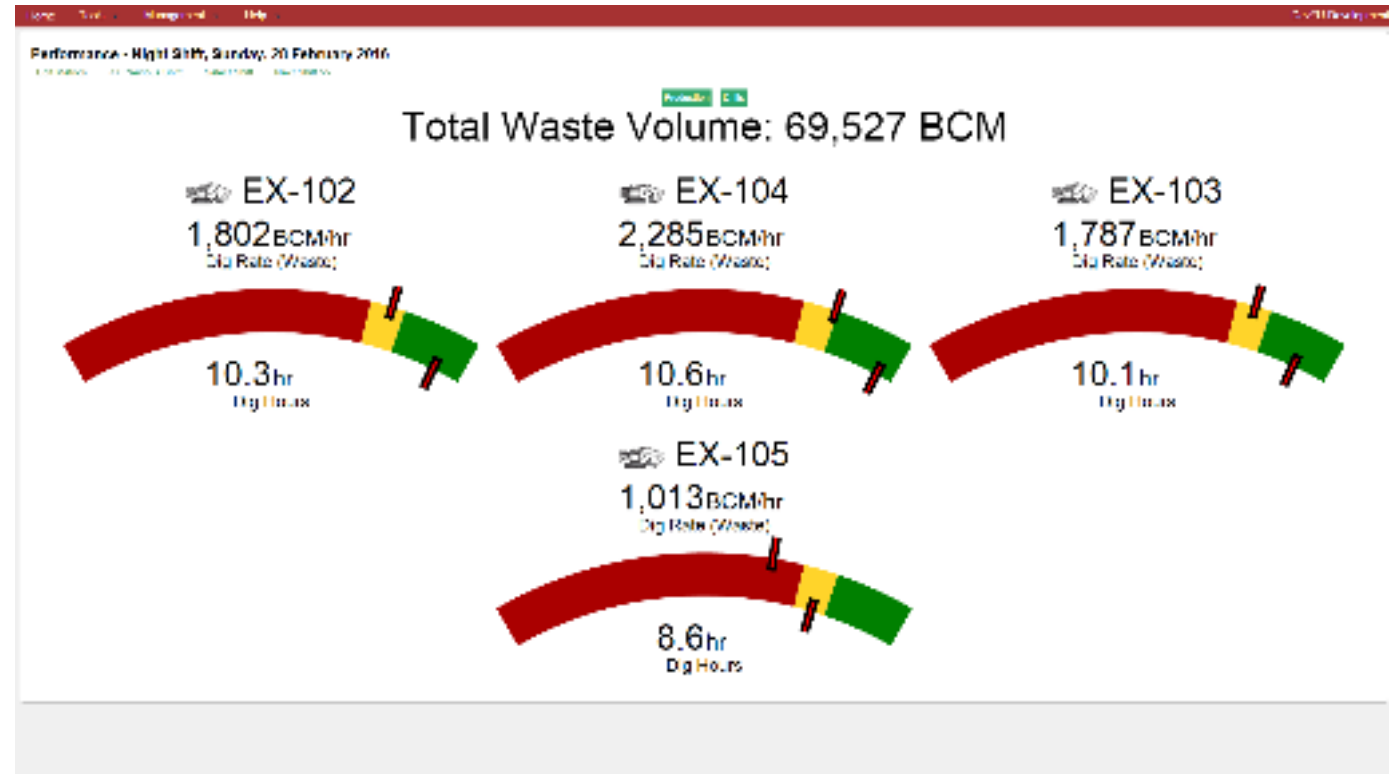
Equipment Delay Planning

- Show planned equipment delays
- Displayed as coloured bar at bottom of equipment hotspot



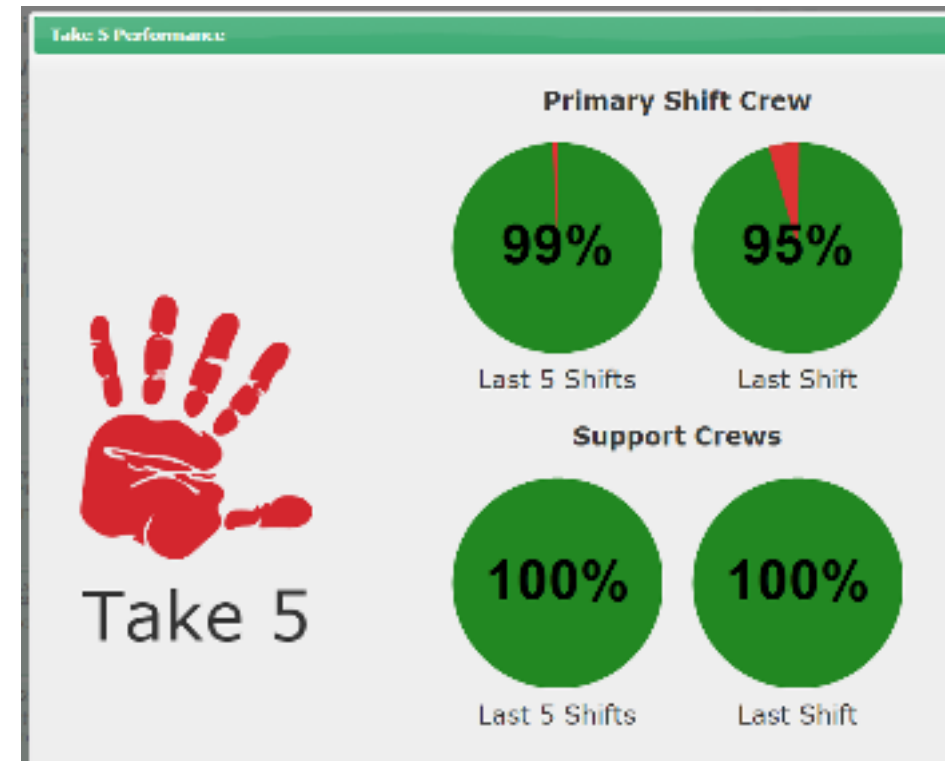
Performance Dashboard

- Clear communication of performance to operators to increase accountability for performance
- Able to setup multiple performance groups (eg. Production, Drills)



Take 5 Reporting

- Allows Take 5 completion by workers to be recorded
- Ensure all workers are doing one or more take 5's per shift
- Encourage compliance through accountability and visibility
- Green/ Red dot on Lineup corresponds with previous shift for crew.



Other Features of Lineup Screen

View Performance Dashboards

Take 5 Performance/ Overview

Generate Payroll Report

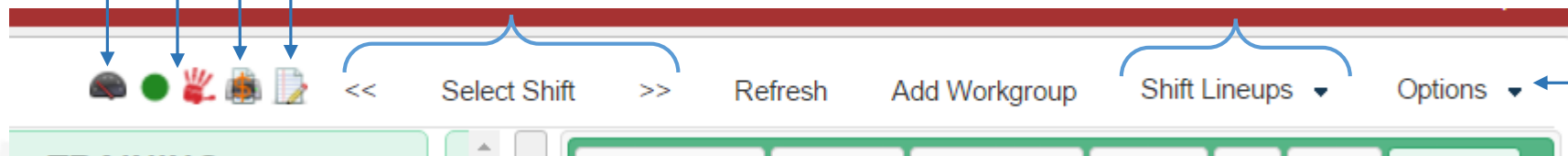
Drag & Drop Comment

Navigate Shifts

Access Alternative Lineups
(eg. Rain event plan)

Other Functions:

- Copy Lineups
- Clear allocations
- Utilities



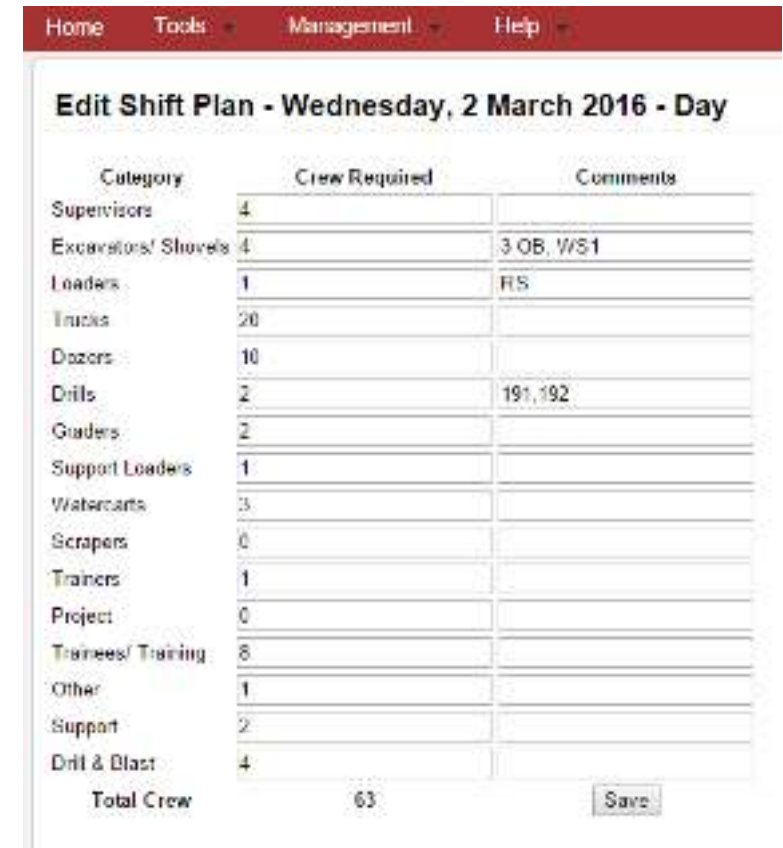
Shift Labour Planning Workflow

- Lineup contains a shift labour planning workflow to assist with managing labour on site
- The general process is:
 - Record planned worker absences (on-going)
 - Create shift plans with required labour numbers
 - Identify overtime requirements
 - Process overtime nominations/ allocations
 - SMS workers successful/ unsuccessful
- Workers available in the main lineup screen will be automatically updated



Shift Labour Planning

- Identify number of workers needed in each worker category
- Categories easily configured per-site
- Bulk edit tool allows editing of all shifts for production week to speed up data entry



Category	Crew Required	Comments
Supervisors	4	
Excavators/ Shovels	4	3 OB, WS1
Loaders	1	RS
Trucks	20	
Dozers	10	
Drills	2	191, 192
Graders	2	
Support Loaders	1	
Watercarts	3	
Scrapers	0	
Trainers	1	
Project	0	
Trainees/ Training	8	
Other	1	
Support	2	
Drill & Blast	4	
Total Crew	63	<input type="button" value="Save"/>



Overtime Management

- Lineup contains a complete overtime management tool
- Automatically prints required sheets for nomination and notification



Overtime Nominations

- Allows rapid recording of nominations from printed nomination sheets
- Shows clearly where a worker has a rostered shift
- Excludes shift either side to enforce fatigue rules



The screenshot shows a web application interface for "Overtime Nominations - Week of Friday, 11 March". It features a menu bar with "Home", "Tools", "Management", and "Help". Below the title, there is a "Select Worker" dropdown menu and an "Add" button. The main content is a table with columns for days of the week (Fri, 11 Mar to Thu, 17 Mar) and sub-columns for "Night" and "Day" shifts. The table lists several workers and their assigned shifts, with some cells containing "DS" (Day Shift) or "NS" (Night Shift) and others containing a small square icon.

Worker	Fri, 11 Mar		Sat, 12 Mar		Sun, 13 Mar		Mon, 14 Mar		Tue, 15 Mar		Wed, 16 Mar		Thu, 17 Mar	
	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day
Ayer, David		DS		DS		DS								
Wilmott, John		DS		DS		DS			NS		NS			
Winks, Scott			NS		NS		NS							
McKee, Anthony		DS		DS		DS			NS		NS			
Perkins, Donald									NS		NS			NS
Cumker, David			NS		NS		NS							

Overtime Allocation

- Once nominated, the system will assist in allocating overtime in such a way that fatigue rules are not breached
- Auto-allocation allows automatic assignment given priority to workers who have worked fewer overtime shifts (shown in parenthesis)

	Fri, 26 Feb	Sat, 27 Feb	Sun, 28 Feb	Mon, 29 Feb	Tue, 01 Mar	Wed, 02 Mar	Thu, 03 Mar
Night	Allocated: 5 of 8 Croswell, Luke (7) ✓ Farthing, Mark (23) ✗ Moore, Ross (3) ✓ Dwyer, David (18) ✓ Stoffers, Norman (12) ✓ Wright, David (12) ✓	Allocated: 1 of 2 Largo, Shane (0) ✓ Shenbrook, Peter (17) ✓ Thompson, Patrick (7) ✓	Allocated: 1 of 2 Hampton, Patrick (0) ✓	Allocated: 0 of 1	Allocated: 1 of 1 Deherty, Jeremy (9) ✗ Hart, Christian (19) ✗ Wilson, Keith (2) ✓	Allocated: 0 of 0	Allocated: 0 of 0
Day	Allocated: 5 of 2 Farthing, Mark (24) ✗ Geoghegan, Barry (17) ✓ Green, Wayne (1) ✓ Hamilton, Jason (1) ✓ Hartley, Ken (19) ✓	Allocated: 3 of 2 Farthing, Mark (24) ✗ Geoghegan, Barry (18) ✓ Hamilton, Jason (2) ✓ Hartley, Ken (20) ✓	Allocated: 4 of 5 Farthing, Mark (25) ✗ Geoghegan, Barry (19) ✓ Hamilton, Jason (3) ✓ Nelson, Kevin (0) ✓	Allocated: 1 of 0 Farthing, Mark (26) ✗ Shoemaker, Jake (14) ✗ Thompson, Patrick (8) ✓	Allocated: 1 of 0 Conrath, Tim (10) ✗ Geoghegan, Barry (20) ✓ Patterson, Eoin (7) ✓ Thompson, Patrick (9) ✓	Allocated: 1 of 0 Deherty, Jeremy (10) ✗ Meyers, David (5) ✗ Stodd, Peter (10) ✓	Allocated: 1 of 0 Gill, Anthony (10) ✗ Gold, Nick (23) ✗ Stodd, Peter (11) ✓



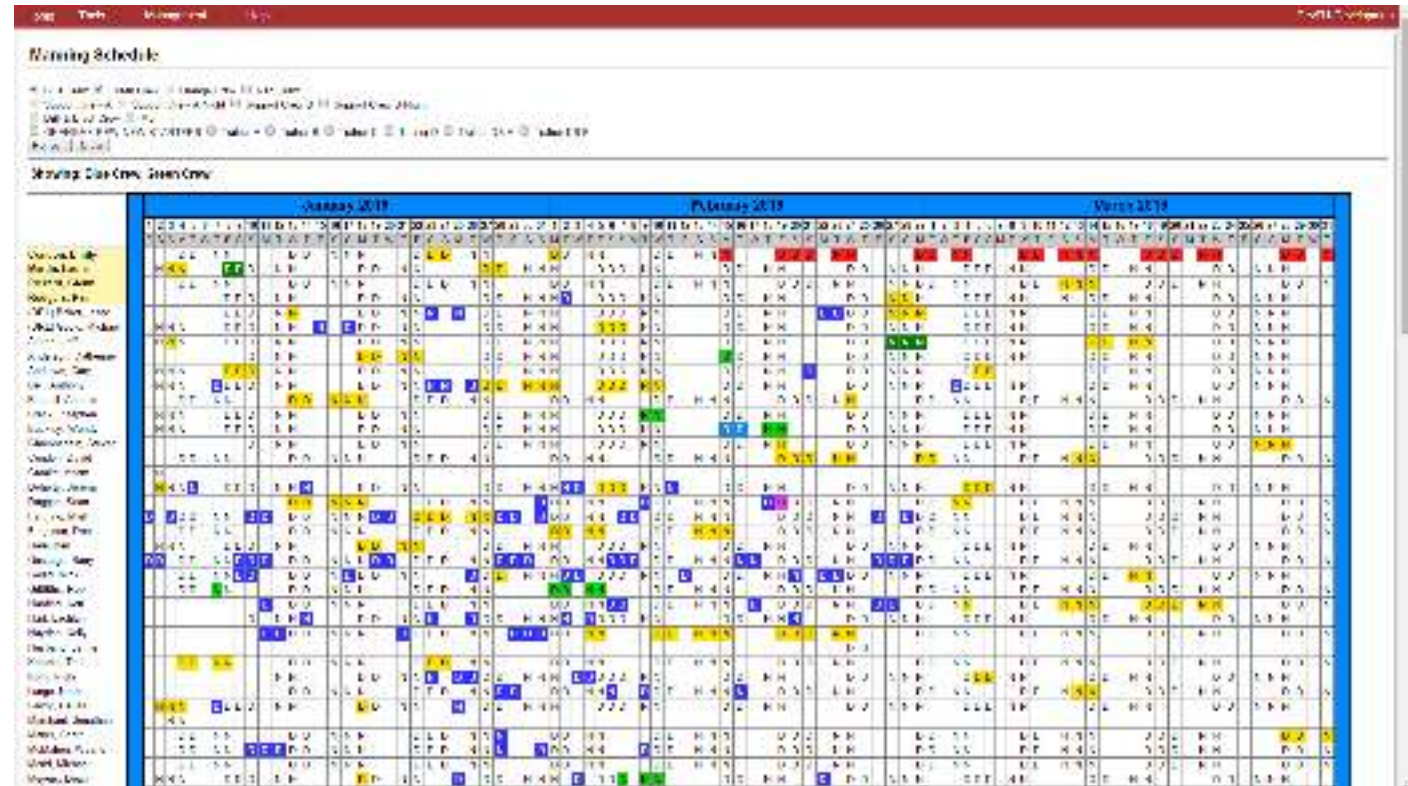
Overtime Communication

- Allocation sheets are generated as PDF so they can be printed and posted in crew muster area
- SMSes can be sent out to all workers nominated or allocated to advise them of their overtime status
- Internal audit are logs kept to ensure “I didn’t know” isn’t an excuse



Manning Schedule

- Shows all workers for selected crews and their rostered present/ absent shifts
- Allows for easier planning of leave for supervisors
- Shows crew changes over time for accuracy



Reporting

- Run reports to interrogate the system
- View on screen or export to Excel/ CSV
- Current reports:
 - Weekly Plan Detail
 - Worker Allocation
 - Payroll Detail
 - Crew Snapshot
 - Take 5 Performance

Date	Name	CrewName	OperatorName	Availability	Equipment	WorkgroupName	TaskName	CostCentre	Cost
Tue, 01-Mar	Night	Red Crew	HORADAM, Greg		DT-201	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	WILKINS, Joel		DT-202	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	O'CONNOR, Greg (Tan)		DT-203	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	EDWARDS, Stuart		DT-204	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	JARRATT, Jeremie		DT-205	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	METZE, Cheyne		DT-211	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	O'CONNELL, Luke		DZ-308	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	RILEY, Daryl		DZ-309	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	KEOGH, Jamie		EX-104	WASTE	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	STOKES, Brent		EX-102	WASTE- TRAINING	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	BUTT, Michael		EX-102	WASTE- TRAINING	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	MCPHEE, Jason		DZ-301	WASTE- TRAINING	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Trainer B	BOAN, Mandy		DT-213	WASTE- TRAINING	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Red Crew	MELON, Kaine		DT-214	WASTE- TRAINING	Overburden Excavator	41103115	Overl
Tue, 01-Mar	Night	Trainer B	MARTIN, Chris		DT-215	WASTE- TRAINING	Overburden Excavator	41103115	Overl



Further Information

- Contact devFU for more technical or commercial information regarding the use of the system

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