



Lay Down Yard Management

Venkat Andaloori & Darren Schmidt

Newmont Goldcorp

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About the Speakers

Venkat Andaloori

- IT Global lead GSM Consultant, Newmont Goldcorp.
- SAP Professional/PMP certified SCM consultant with 18+years of SAP Experience.

Darren Schmidt

- Global Projects Implementation Manager SCM, Newmont Goldcorp.
- 30 Years experience in Asset Intensive industries (Defense & Mining)

Safety Share-Haul Trucks

- In the period 2000-2012, 17/33 (over 50%) of fatalities related to surface mining involved heavy equipment.

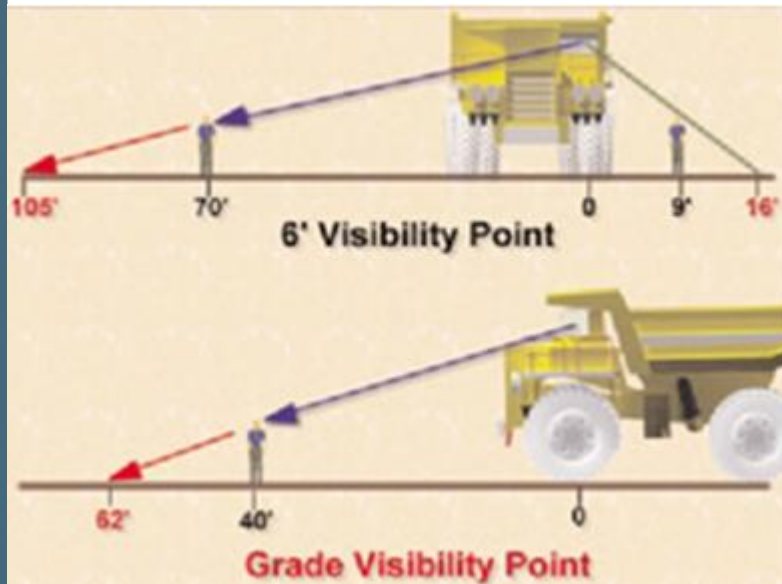


- Vehicle to Vehicle collisions remain one of the highest causes of incidents in surface mining worldwide.

* Dept of Mines & Petroleum, Govt of WA

Poor Visibility – Haul Trucks

- Many collisions involving Haul Trucks are caused by poor visibility and blind-spots to the front and sides.
- It is important that Utility Mine Vehicles eg 4x4's have good visibility and are aware of the Haul Truck limitations.



Critical distances – Typical Haul Truck Neighborhood



Causes and Risk Management

OTHER CAUSES OF HEAVY MINING EQUIPMENT INCIDENTS

- Speeding
- Fatigue
- Run-away Vehicles (inadequate parking up, loss of control on inclines)
- Vehicle over Edge (eg road edge, stockpiles)
- Failure to adhere to Procedures & Traffic Rules
- Infrastructure (pit wall failure)

RISK MANAGEMENT

- Flashing Lights
- Whips
- Back-up alarms
- Horns
- Two-way communication
- Site traffic procedures
- Collision Avoidance Systems

Key Outcomes/Objectives

If your organization is looking for a solution to manage inventory & provide internal customers visibility once goods are issued for stock items or, after goods receipt has been completed for free text items, then this is the right session to be in.

Agenda

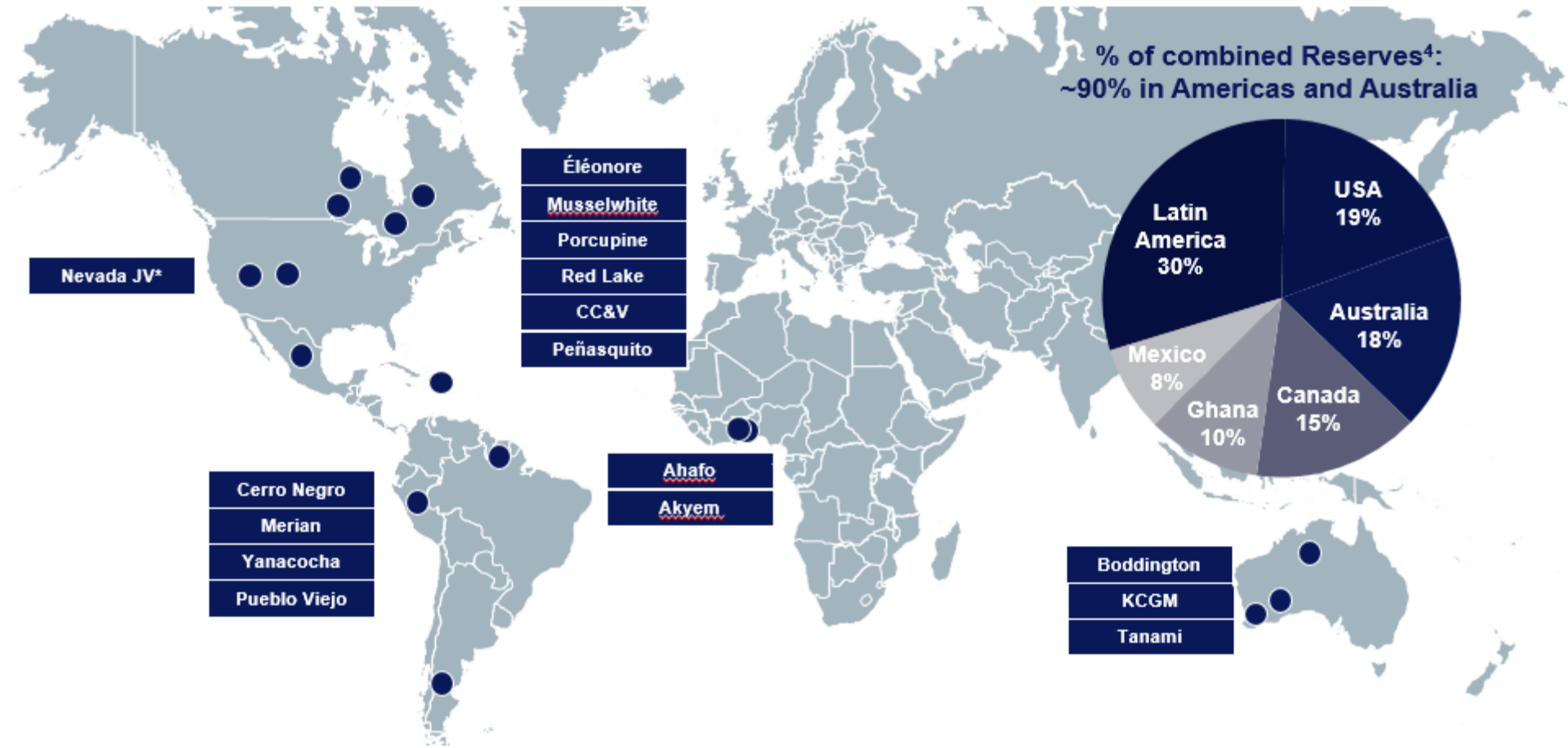
- Company Overview
- Problem Statement
- Business Requirements
- LDM Overview
- Master Data
- Project Timeline and Implementation.
- Business benefits & Next Steps
- Wrap-up

Newmont Goldcorp

- Newmont Goldcorp is an industry leader in value creation, supported by its leading technical, environmental, social and safety performance.
- Our purpose – to create value and improve lives through sustainable and responsible mining – is guided by five core values: safety, integrity, sustainability, inclusion and responsibility.
- Founded in 1921 and publicly traded since 1925, Newmont is headquartered in Denver, Colorado, and is the gold producer listed in the S&P Index.
- We have approximately 34,000 employees and contractors, with the majority working at managed operations in the United States, Canada, Mexico, Argentina, Australia, Ghana, Peru, and Suriname.
- We are proud to have been named the mining industry leader by the Dow Jones Sustainability World Index in 2015, 2016, 2017 and 2018.



Newmont Operation Sites



Problem Statement

❑ Planning & Scheduling

- Planners reluctant to schedule work unless materials physically sighted.
- Components/Tools brought to site by contractors have no visible tracking.
- Large planning offsets applied as there is no visibility of parts after issued from warehouse.
- No cost reporting for the components within the staging area.

❑ Warehouse

- Unable to provide visibility of kitting perform for a work order which contains stock and direct charge components.
- Multiple manual spread sheet/forms utilized for tracking components after issued from warehouse to staging area.
- parts delivered weeks in advance before the actual work start date with no visibility.
- Not all parts utilized by the maintenance execution teams. This was leading to no visibility of the parts left in staging area that are on TECO/CLSD orders.
- Staging area overflowing with no ability to assess what should or shouldn't be in there.

Business Requirements

- ✓ Ability to track the parts after consumption from warehouse either picked up or delivered to the maintenance execution teams.
- ✓ Ability to identify parts not issued to maintenance execution teams that are on TECO/CLSD orders.
- ✓ Ability to track/kit parts from inventory, purchased directly and provided by supplier for a work order.
- ✓ Ability to report costs still sitting in staging areas.
- ✓ Ability to display /report the items available in staging area by Work Order/WBS/Cost Center/Reservation for all users.
- ✓ Ability to move parts within staging areas.
- ✓ Restricted timeline to implement the solution without customization.
- ✓ Fully Integrated into SAP.

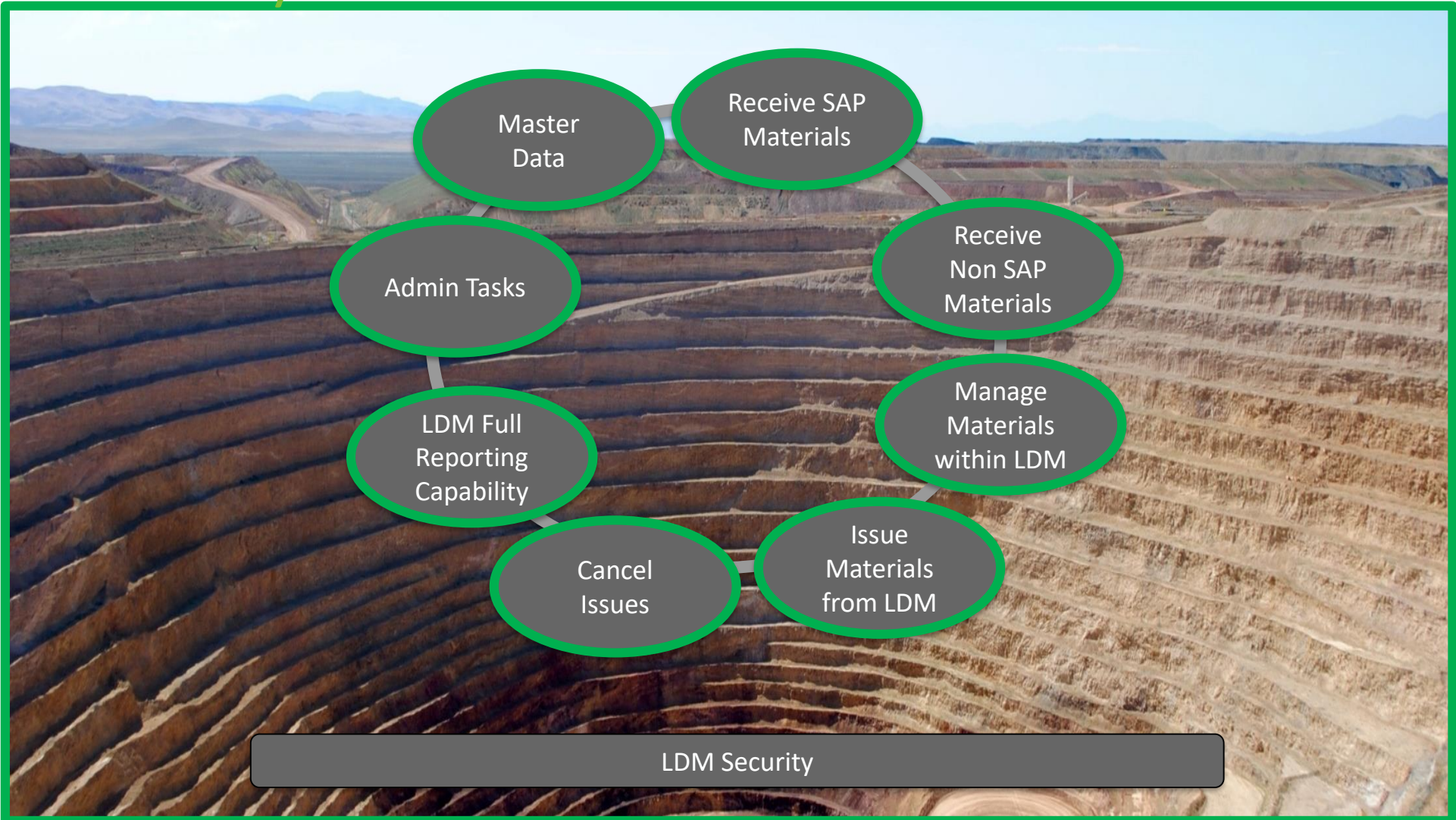
Solution Selection – Vesta

- Existing Relationship.
- Simple fully integrated off the shelf solution.
- Engage and implement immediately.
- Price and Implementation costs .

LDM Overview

- SAP Laydown Yard/Area Manager (LDM) runs within your SAP System as a custom transaction that provides the ability for the warehouse to track materials that, although 'consumed' within SAP, are being held by the warehouse until needed. This includes:
 - Directly procured material that has been delivered but is not yet needed for job / project
 - Storehouse materials that have been issued early
 - Materials delivered by a vendor who need them onsite for a future service that they will be providing
- SAP LDM is delivered via a transport for easy installation into your SAP system – no interfaces to external systems are needed. Works on 4.6c to ECC6 SAP landscapes.
- With SAP LDM you map your Laydown Yards / Laydown Areas using customer specific storage locations and then define each location into specific put away areas.

LDM-Key Functions



Master data Requirements

- Plant
- Storage Location
- Bins
- Pallets
- User
- Management Types

Security

- Administrator
- End users

LDM Report

EX	Status	SLoc	Storage Bin	Cost Object	Object Text	Material	Material Description	Qty Mvd	Qty Op...	Unit Price	Total Price	Days in	Rec Date	MvT	Reservation	Item	Purch.Doc.	Item	Doc. Date
	REL	FW01	10B2	11980473	D 26W Mech C/O Oil Filters & Br...	60384048	BREATHER,G/8,8.5IN	8	8	124.59	996.72	0	05/02/2019	261	4859332	2			04/30/2019
	REL	FW01	10B2	11980473	D 26W Mech C/O Oil Filters & Br...	60151041	FILTER ELEMENT,OIL,ID:32MM,OD:66MM	12	12	77.54	930.48	0	05/02/2019	261	4859332	1			04/30/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		Vibrating Wire Piezometer	18	18	0.00	0.00	0	05/02/2019	109			3001915857	10	04/26/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		Cable Instrument Cable	550	550	0.00	0.00	0	05/02/2019	109			3001915857	20	04/26/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		LS G6 Gateway	1	1	0.00	0.00	0	05/02/2019	109			3001915857	30	04/26/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		Vibrating Wire datalogger 5 Sensors	6	6	0.00	0.00	0	05/02/2019	109			3001915857	40	04/26/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		Fanso C Size Long Life Batteries	24	24	0.00	0.00	0	05/02/2019	109			3001915857	50	04/26/2019
		FW01	04A1	12730	General-Ops-Mill - Primary		Mounting Galvansised Steel Posts	6	6	0.00	0.00	0	05/02/2019	109			3001915857	70	04/26/2019
		FW01	11D4	12730	General-Ops-Mill - Primary		Sunshade for loggers	6	6	0.00	0.00	0	05/02/2019	109			3001915857	80	04/26/2019
	REL	FW01	20A2	20924398	Chute Repair/Install screen 672...	62089898	LINER,WEAR,NONMTL,SHEET:500X500X14MM	4	4	210.00	840.00	0	05/02/2019	261	3436863	3			04/30/2019
	REL	FW01	04L4	21465316	LIME Rebuild Wetend/Belts 692...	60312532	GLAND,PACKING	1	1	44.46	44.46	0	05/02/2019	261	5010705	6			04/30/2019
	REL	FW01	04A1	21465316	LIME Rebuild Wetend/Belts 692...	60184621	IMPELLER,PUMP,CENT,5	1	1	860.46	860.46	0	05/02/2019	261	5010705	7			04/30/2019
	REL	FW01	04A1	21465316	LIME Rebuild Wetend/Belts 692...	60219456	LINER,WEAR,FRM PLATE,PMP	1	1	602.89	602.89	0	05/02/2019	261	5010705	8			04/30/2019
	REL	FW01	05N1	21465316	LIME Rebuild Wetend/Belts 692...	60219968	LINER,COVER PLATE	1	1	559.14	559.14	0	05/02/2019	261	5010705	9			04/30/2019
	REL	FW02	02F2	21466119	Rebuild wetend 664-PPS-108	60155520	LINER,WEAR,BACK SIDE,CL 9M	1	1	1,850.12	1,850.12	0	05/02/2019	261	5012635	6			04/30/2019
	REL	FW01	04M5	21468616	Overhaul Regrind cyclone M	60207102	LINER,WEAR,NONMTL,NAT BPC RBR,CONE	1	1	1,128.69	1,128.69	0	05/02/2019	261	5020613	3			04/30/2019
	REL	FW01	04M5	21468616	Overhaul Regrind cyclone M	60213892	LINER,WEAR,NONMTL,NAT BPC RBR	1	1	354.84	354.84	0	05/02/2019	261	5020613	4			04/30/2019
	REL	FW01	11A2	21466302	A*scats bypass gate ram replace...	60315209	CYLINDER,ACT,LIN,PNEU	1	1	2,856.80	2,856.80	0	05/02/2019	261	5012911	1			05/01/2019
	TECO	FW03	F1J	21288363	Replace 1-5 cheese boards with		Type 3 Rubber lined panel	3	3	3,300.00	9,900.00	0	05/02/2019	107			3001772043	30	11/07/2018
	TECO	FW03	F1J	21288363	Replace 1-5 cheese boards with		Type 4 Rubber lined panel	2	2	3,381.40	6,762.80	0	05/02/2019	107			3001772043	40	11/07/2018
	CLSD	FW03	F1J	21288362	Replace cheese boards	62118642	PANEL,LIN SCR N DIST,W:995MM,CNR BLK	2	2	652.00	1,304.00	0	05/02/2019	261	4526810	3			10/24/2018
	CLSD	FW03	F1J	21288362	Replace cheese boards	62118643	PANEL,LIN SCR N DIST,W:995MM,CNR GRN	1	1	652.00	652.00	0	05/02/2019	261	4526810	4			10/24/2018
	TECO	FW01	10D4	11719742	S 04Y Mech C/O Spools 8-13	60165181	GASKET,FULL FACE,ID:750MM,THK:3MM	1	1	435.14	435.14	0	05/02/2019	261	4283451	3			01/28/2019
	REL	FW01	11C4	21453070	A*install isolation air valves lb	60197811	VALVE,BALL,FLW CTRL,20MM,1000PSI,SS316	2	2	10.97	21.94	0	05/02/2019	261	4978715	1			04/25/2019
	REL	FW01	11C4	21383330	*Replace girth gear labyrinth bolts		JOBBER DRILL 10MM LEFT HAND COBOLT	5	5	17.60	88.00	0	05/02/2019	107			3001917870	30	04/29/2019
	REL	FW01	11C4	20969629	1OP*Replace valves under colum...	60165427	GASKET,FULL FACE,ID:100MM,THK:3MM	2	2	20.52	41.04	0	05/02/2019	261	3566937	2			04/26/2019
	REL	FW01	11C4	21467145	TS201 Replace Tracking Valve/P...	60368208	PADDLE,STIRRING,SNR ARM	1	1	303.41	303.41	0	05/02/2019	261	5016829	2			04/26/2019
	REL	FW01	11C4	21467145	TS201 Replace Tracking Valve/P...	60334681	SENSOR,MNTL PICKUP	1	1	1,200.15	1,200.15	0	05/02/2019	261	5016829	1			04/30/2019
	REL	FW01	11C2	50017721	WP Yearly Plant Tooling <= \$10...		EXTRACTOR SCREW SET 10PCE PROTO 9500B SE	2	2	171.24	342.48	0	05/02/2019	107			3001908475	10	04/26/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60149309	LINER,WEAR,NONMTL,NAT BPC RBR,INLET HD	1	1	3,531.07	3,531.07	0	05/02/2019	261	5005799	1			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60152226	LINER,WEAR,NONMTL,SISIC CER,THK:15MM	1	1	1,838.72	1,838.72	0	05/02/2019	261	5005799	2			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60190407	GASKET,NEOPRENE RBR	1	1	52.13	52.13	0	05/02/2019	261	5005799	3			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60206716	LINER,WEAR,NONMTL,SISIC CER,MIDDLE CONE	1	1	3,068.32	3,068.32	0	05/02/2019	261	5005799	4			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60207111	LINER,WEAR,NONMTL,NAT BPC RBR,UPR CONE	1	1	1,640.69	1,640.69	0	05/02/2019	261	5005799	5			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60228521	LINER,WEAR,NONMTL,NAT BPC RBR	1	1	2,140.15	2,140.15	0	05/02/2019	261	5005799	6			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60292897	VORTEX FINDER,HYDROCYCLONE,DIA:13IN	1	1	2,401.70	2,401.70	0	05/02/2019	261	5005799	7			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60320777	INSERT,WEAR,DIA:8IN,THK:10MM,SIL CARB	1	1	1,475.78	1,475.78	0	05/02/2019	261	5005799	8			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	60382388	GASKET,INTER,NEOPRENE RBR	1	1	95.62	95.62	0	05/02/2019	261	5005799	9			04/30/2019
	REL	FW03	01J5	12048132	D 36W Mech Ovhl Cyclone 401L	62050117	SKIRT LINER,MS SHELL W/MOLDED CER SLV	1	1	1,346.64	1,346.64	0	05/02/2019	261	5005799	10			04/30/2019
	REL	FW03	01H4	11661037	I 02Y Mech C/O Prep Preshut C...	60341280	VALVE,GATE,KNIFE,10IN,150PSI,W/ ACTR	2	2	3,928.67	7,857.34	0	05/02/2019	261	4143905	1			04/30/2019
	REL	FW01	11B3	21435895	SCOPE THK->CIL Replace Flange...		F241+2L spray stop cover	5	5	362.25	1,811.25	0	05/02/2019	107			3001882580	10	04/08/2019

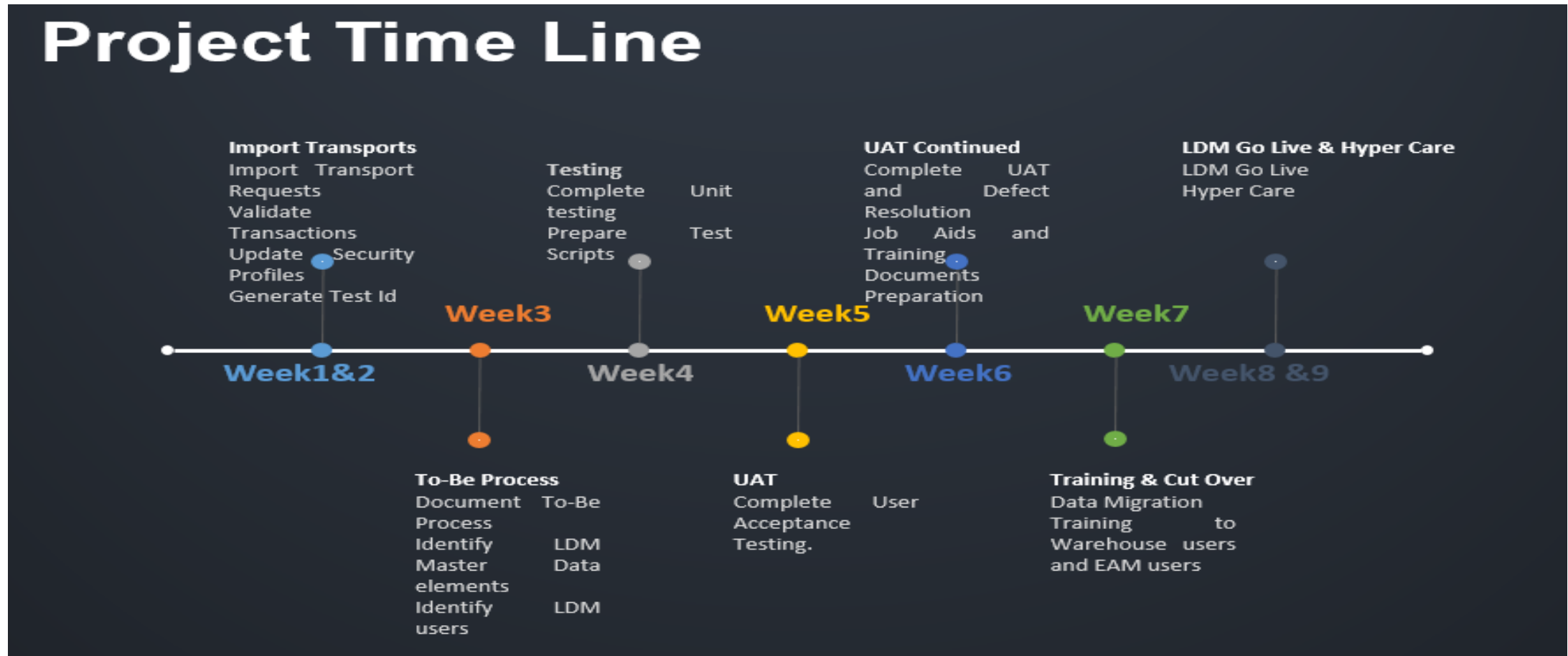
LDM Material Status Report

System Help

Material Status Report

Wk Order No	Wk Order Text	Cost Object	Reservation	RItn	PO no	Material No	Material / PO	Qty Rqstd	Qty Iss/Rcvd	Qty Rmng	UoM	LDM date	LDM Qty	LDM Qty Iss	LDM Qty Opn	LDM SLoc	LDM Bin
21465316	LIME Rebuild Weten...	21465316	5010705	1		60191177	BELT,V,WRA...	2.000		2.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	2		60147786	STUFFING BO...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	3		60151330	O-RING,36.17...	2.000		2.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	4		60152240	LINER,WEAR...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	5		60218830	SPACER,RING...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	6		60312532	GLAND,PACKI...	1.000	1.000		SET	05/02/2019	1.000		1.000	FW01	4L4
21465316	LIME Rebuild Weten...	21465316	5010705	7		60184621	IMPELLER,PU...	1.000	1.000		EA	05/02/2019	1.000		1.000	FW01	4A1
21465316	LIME Rebuild Weten...	21465316	5010705	8		60219456	LINER,WEAR...	1.000	1.000		EA	05/02/2019	1.000		1.000	FW01	4A1
21465316	LIME Rebuild Weten...	21465316	5010705	9		60219968	LINER,COVER...	1.000	1.000		EA	05/02/2019	1.000		1.000	FW01	5N1
21465316	LIME Rebuild Weten...	21465316	5010705	10		60296842	SLEEVE,WEA...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	11		60374684	COUPLING,H...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	12		60380976	HOSE,NONM...	1.000		1.000	ROL						
21465316	LIME Rebuild Weten...	21465316	5010705	13		60315289	COVERALLS,S...	4.000		4.000	PR						
21465316	LIME Rebuild Weten...	21465316	5010705	14		60148202	RING,LANTER...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	15		60218830	SPACER,RING...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	16		60147786	STUFFING BO...	1.000		1.000	EA						
21465316	LIME Rebuild Weten...	21465316	5010705	17		60194653	BOLT,M10,HE...	10.000		10.000	EA						

Time Line



Benefits

- ✓ Visibility of parts in staging.
- ✓ Planners are more confident to schedule work and offsets are not as high.
- ✓ Identification of parts on TECO/CLSD orders that can be returned back to inventory.
- ✓ Planners and supply chain users have transparency into staging to identify urgent requirements for other work orders, before enabling the hotshot process for parts.
- ✓ Cost reporting .
- ✓ Solution implemented within 9 weeks.

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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact us at
[Venkat.Andaloori@Newmont.com] and [Darren.Schmidt@Newmont.com].

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