WEBINAR:

EFFECTIVE CHANGE MANAGEMENT



PRISM CONNECT 2017

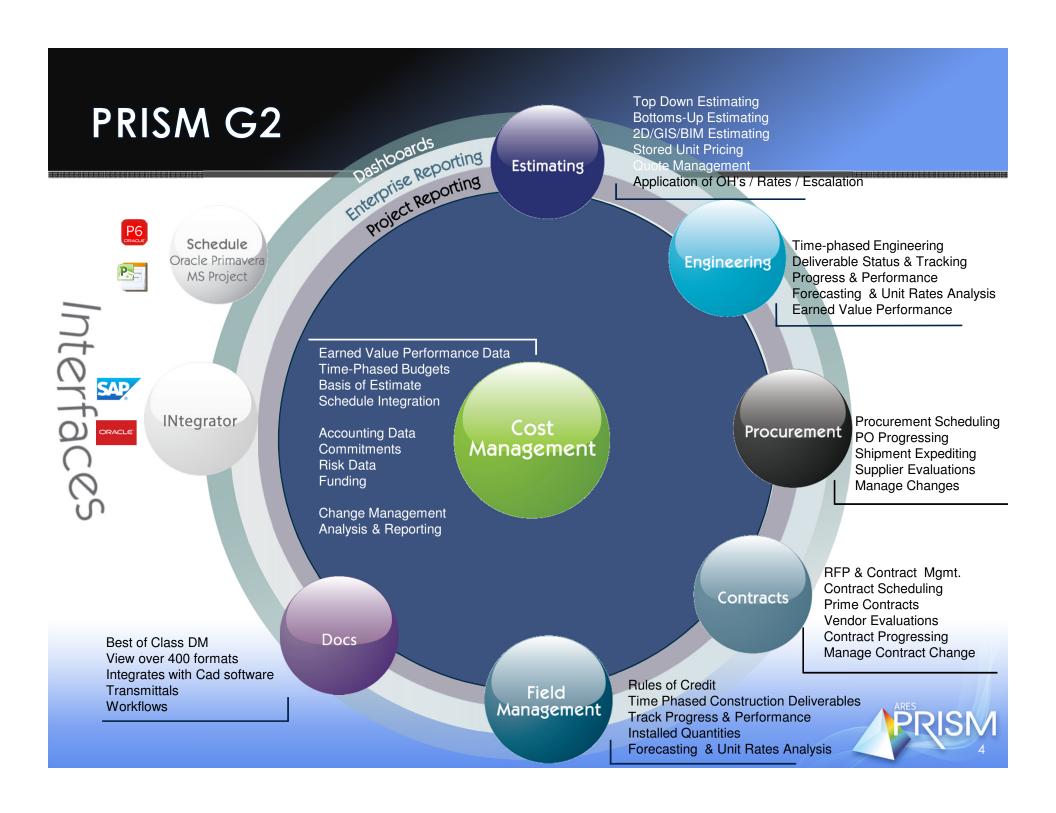


INTRODUCTIONS

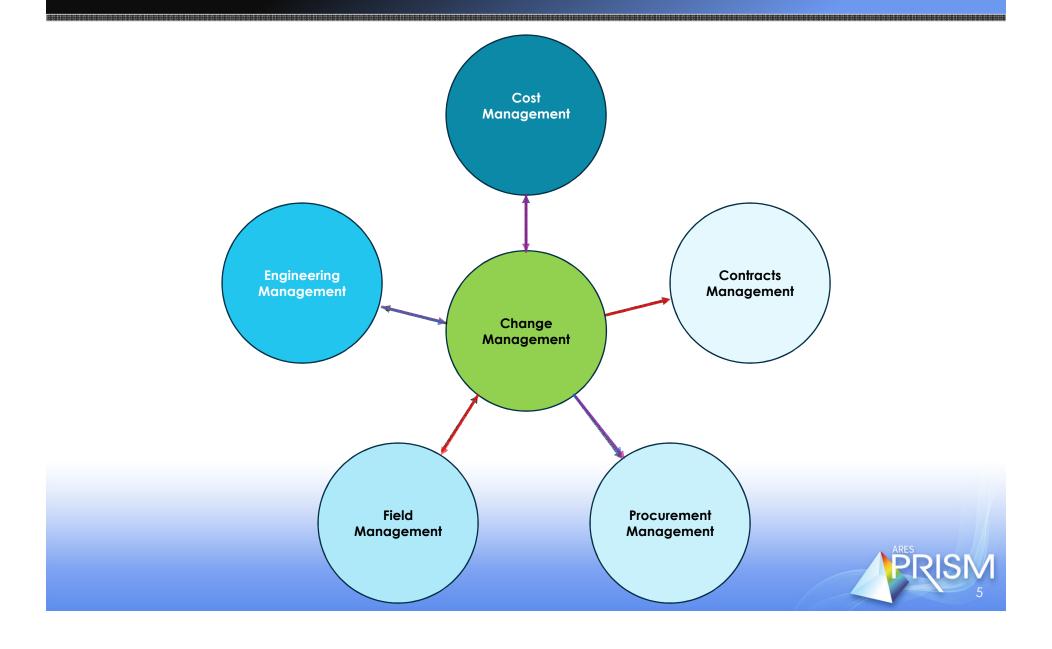
Ett DiGiovanni

▶ Ett DiGiovanni leads product management for ARES Project Management, developers of ARES PRISM integrated cost management software. Ett's career started off as a scheduler during the "BC" period (i.e. before computerized scheduling). Over the past 30 years, Ett has also obtained practical knowledge and experience in estimating, cost engineering, earned value, contracts administration, purchasing, project accounting, materials management, document control and field management.





CENTRALIZED CHANGE MANAGEMENT



ISSUES WITH PROJECT CHANGES

- A change normally results in rising Estimate At Completion
- Pressure exists to forecast accurately and quickly
- Keeping separate logs + paper trails slow down process
- Change is not only a project issue
- Involving other parties increases complexity & cost:
 - More sites, more stakeholders... the more signatures required
- Many project changes are out of governance:
 - Wrong approval or incomplete transactions
- Period-closing takes too long



PROJECT CHANGES THEN AND NOW

- •Traditionally people asked:
 - •What's our Budget / Remaining Budget?
 - What are our Commitments/ Actuals/ Accruals/VOWD
- •More Recently:
 - •What contracts have been let?
 - •What is our unawarded scope?
 - •What funding has been approved / is available this year?
 - •What is the contingency for each element of scope? Are we using it?
 - •What risks do we predict? What risks occurred? Who paid?
 - •What is our pain / gain prediction for each contract?

As the picture changes we are required to move money around, which requires approval

THIS MEANS VOLUME



TO PROPERLY IMPLEMENT CHANGE YOU NEED TO DETERMINE:

- Where should it be managed?
 - We recommend the cost management system
- What are we changing?
 - Typically budgets, forecasts, risks, funding
- What types of change do we handle:
 - Forecasts, transfers, changes in scope, funding awards
- Who would initiate change?
 - We recommend anyone qualified
- Who should review change details?
 - Subject Matter Experts (Estimator, Engineers, Planners)
 - Account Owners
 - Including those with insufficient monetary authority levels
- Who would approve these changes?
 - Those with sufficient monetary authority
- What process would we use for monetary change approval?
 - Basic, intermediate or advanced

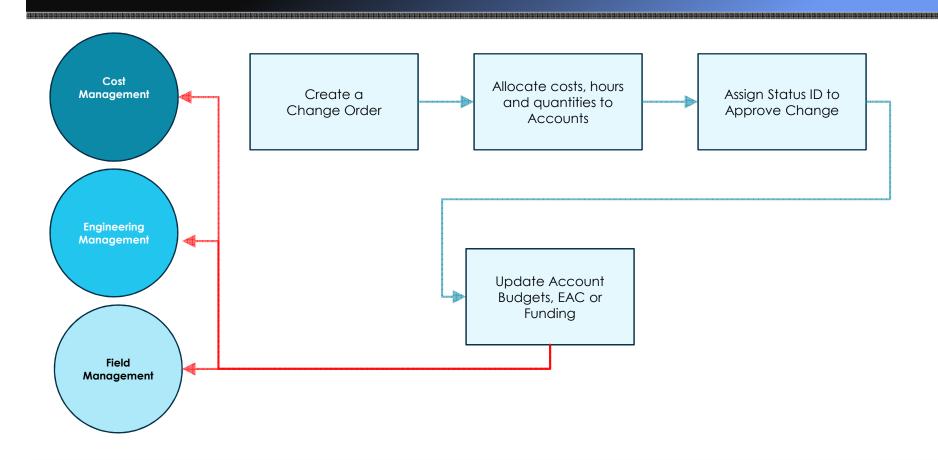
CHANGE MANAGEMENT APPROACHES

- ▶ Basic Approaches
 - Manually create Change Orders only
 - Manually create Trends and Change Orders
- ► Intermediate Approaches
 - Use Workflows on Trends
 - ► <u>Use Workflows on Change Orders</u>
- Advanced Approaches
 - Use Monetary Authority levels
 - Use Change Requests
 - ▶ <u>Use Workflows, Change Requests and Monetary Authority levels</u>
- Other Approaches
 - ► Generate Change Order from External sources
 - ► Linking Cost Change Orders to PO's and Contracts

User determines which options to use

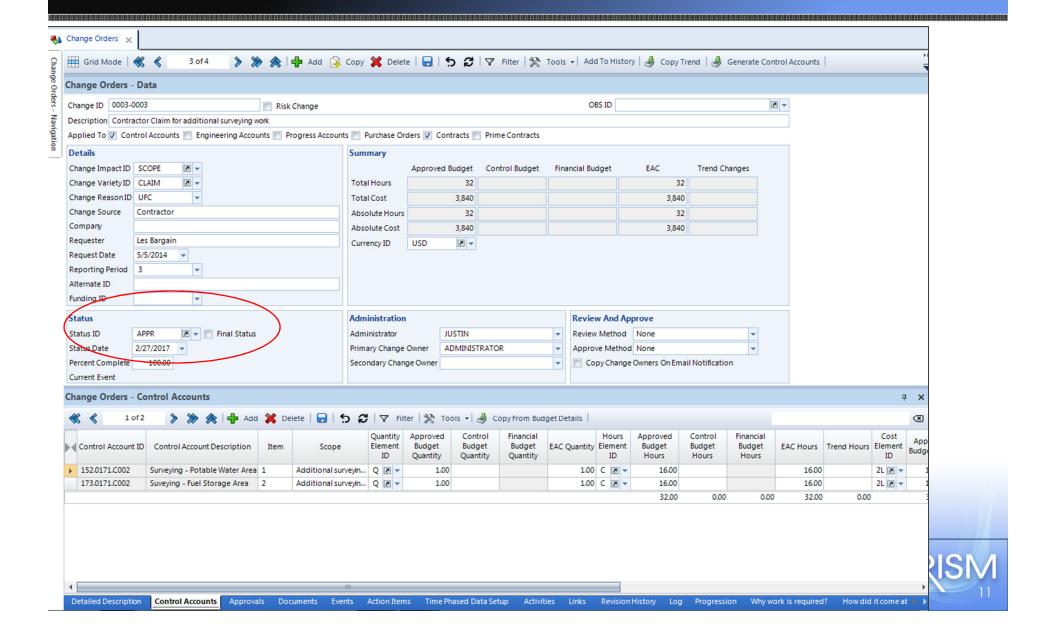


MANUAL CHANGE ORDERS ONLY

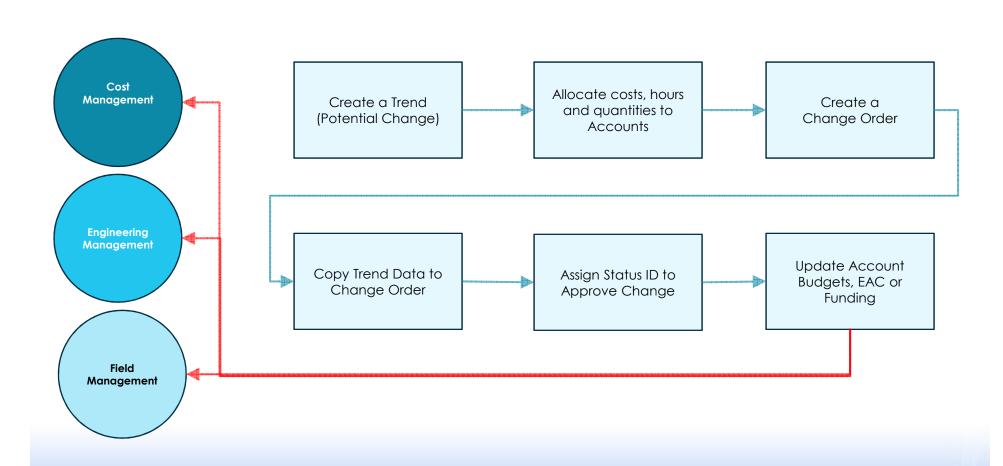




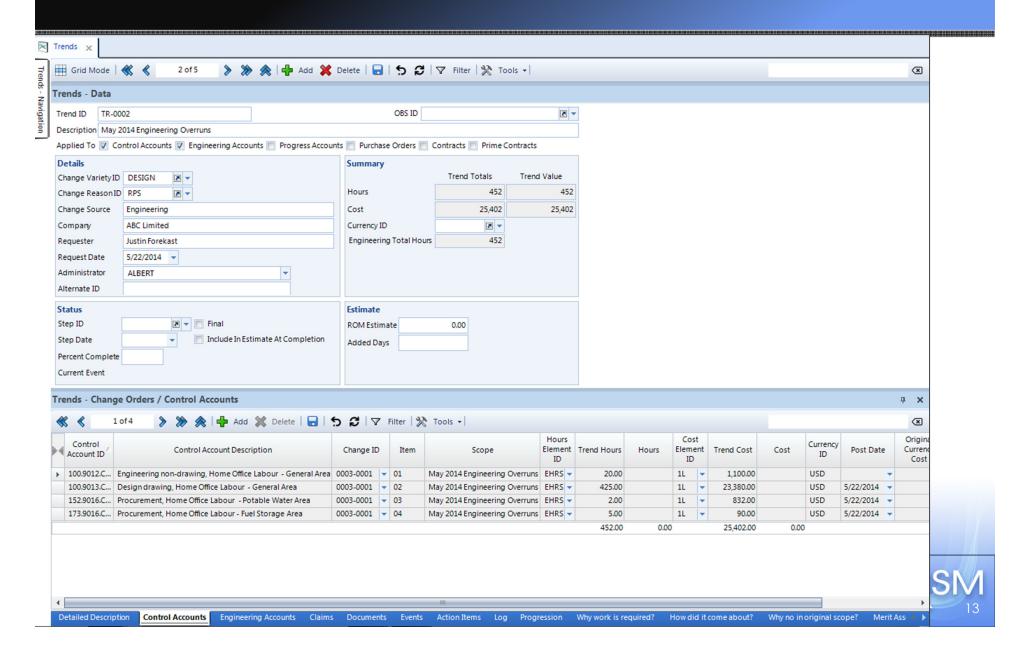
MANUAL CHANGE ORDERS ONLY



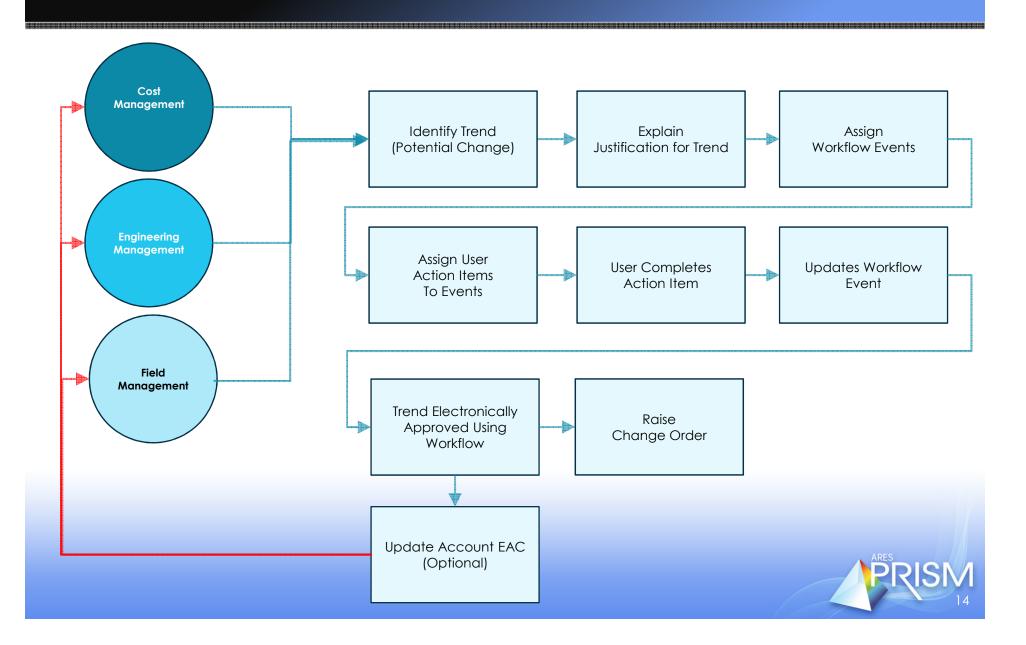
MANUAL TRENDS AND CHANGE ORDERS



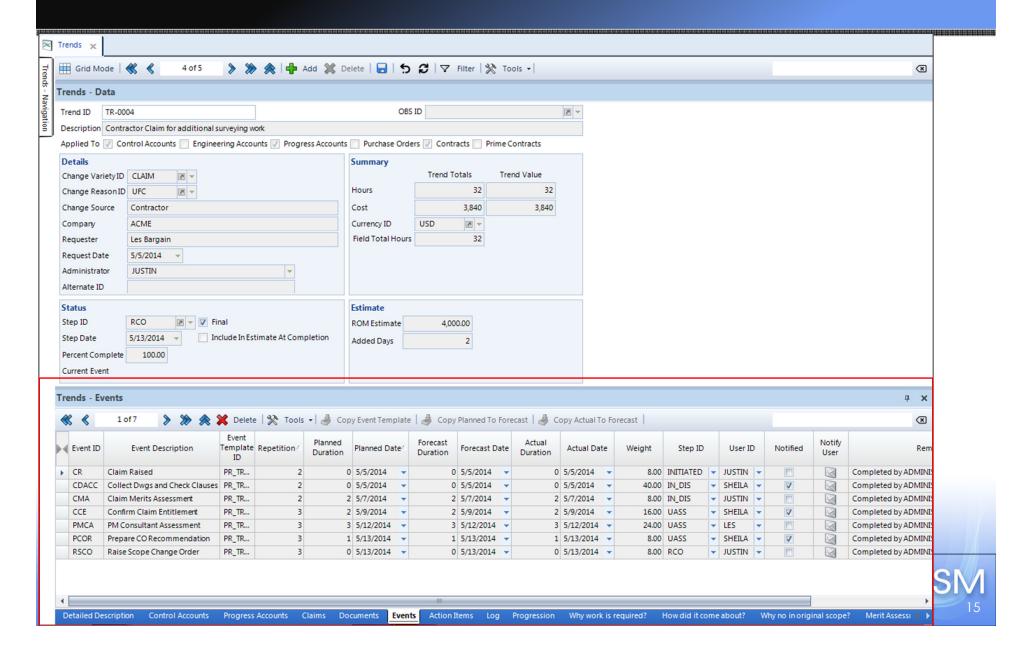
MANUAL TRENDS AND CHANGE ORDERS



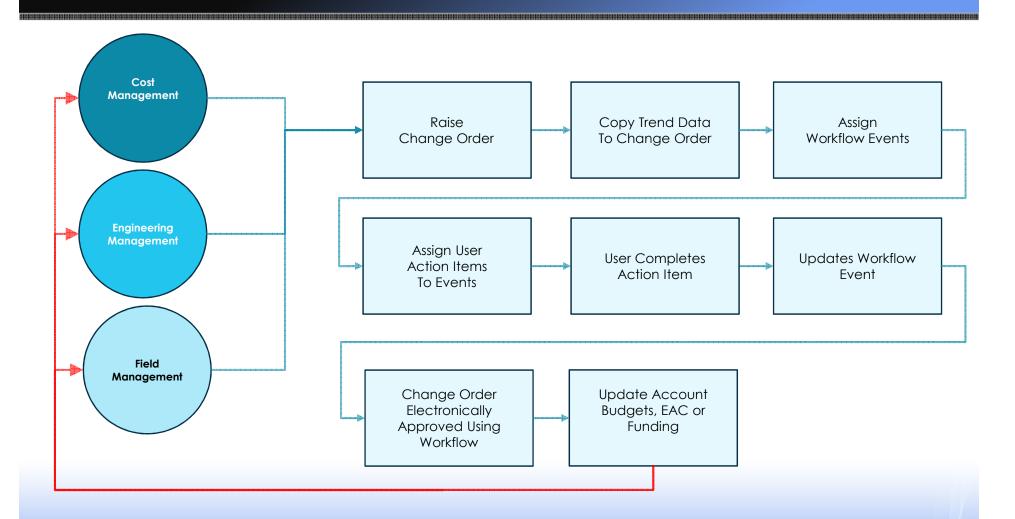
USE WORKFLOWS ON TRENDS



USE WORKFLOWS ON TRENDS

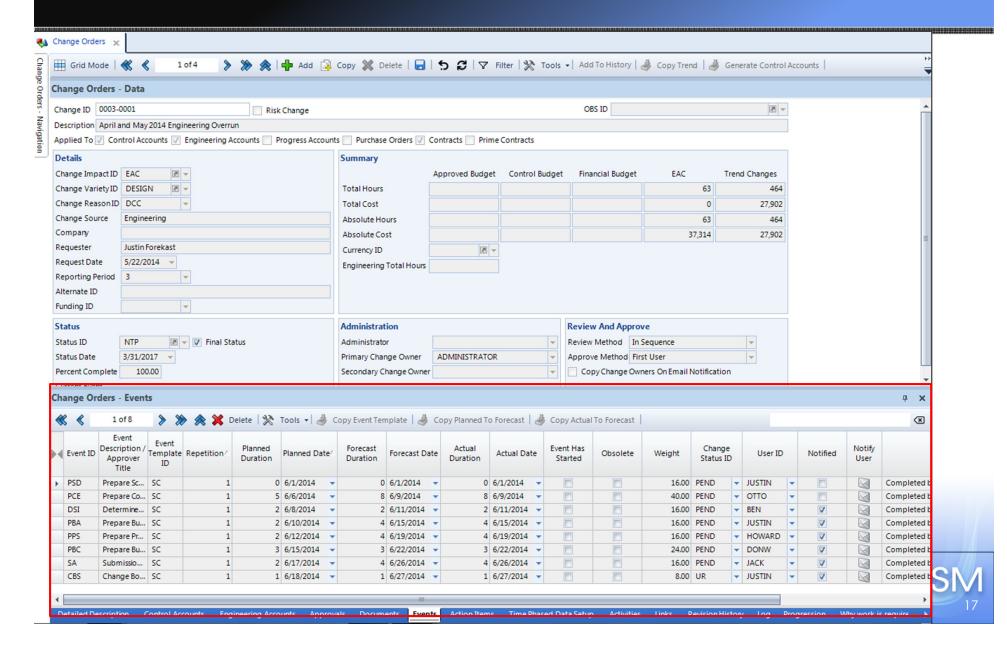


USE WORKFLOWS ON CHANGE ORDERS

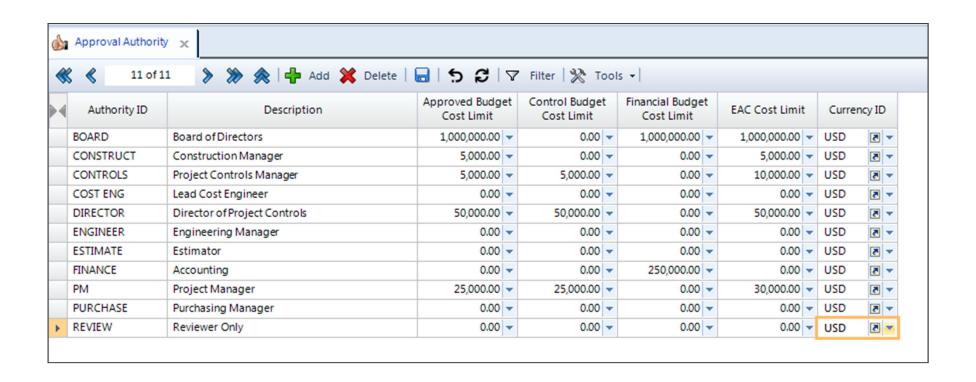




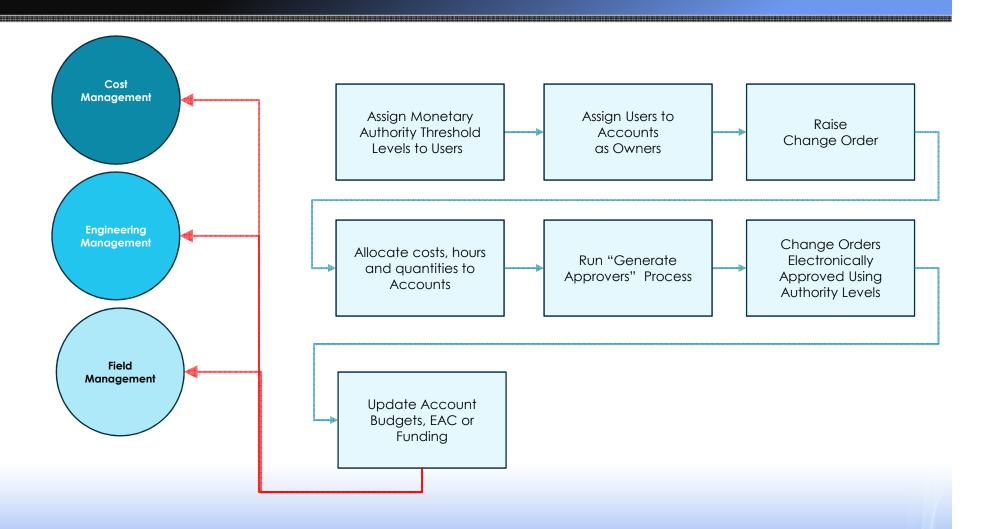
USE WORKFLOWS ON CHANGE ORDERS



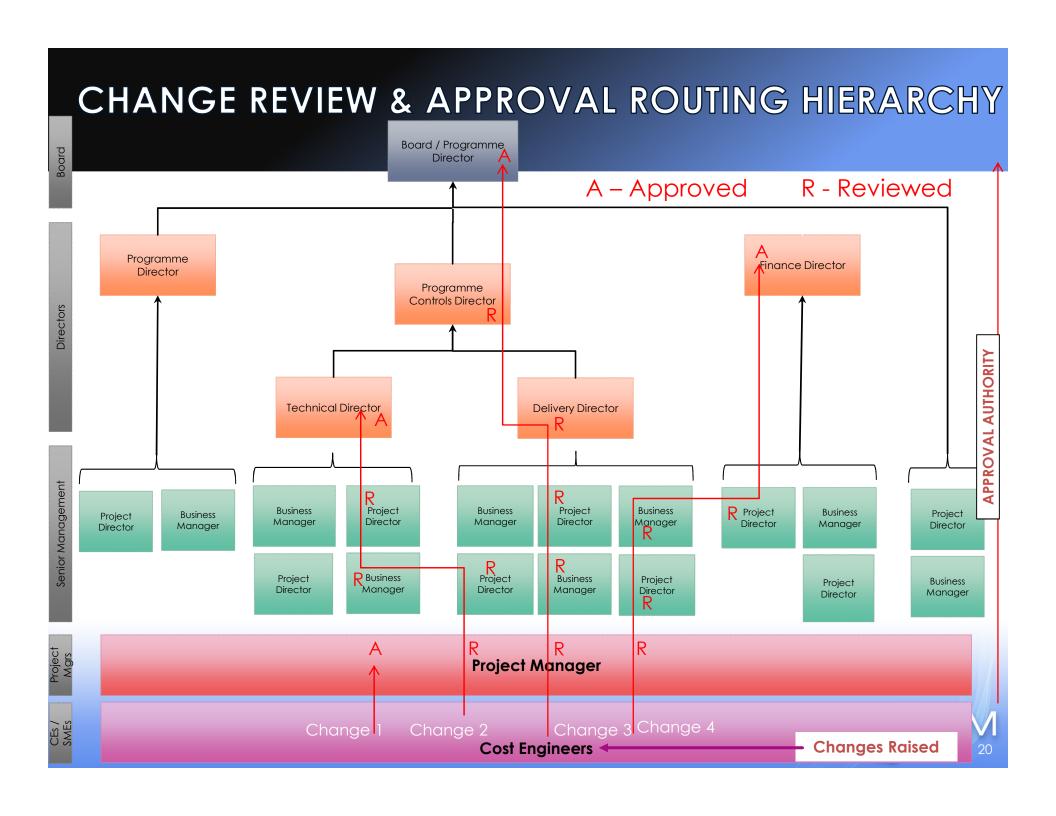
USE MONETARY AUTHORITY LEVELS



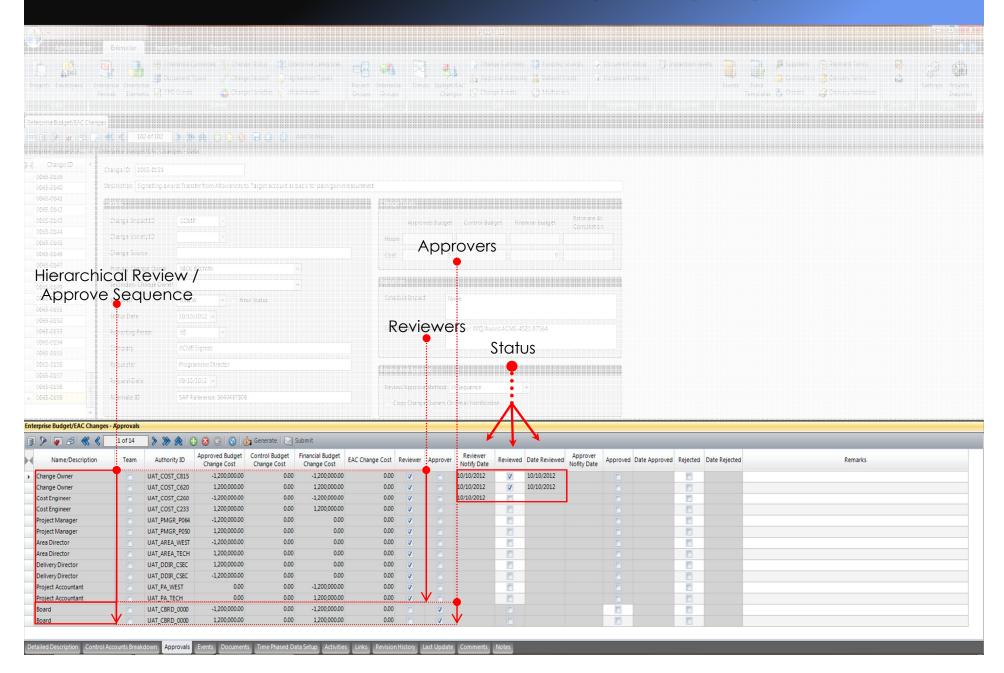
USE MONETARY AUTHORITY LEVELS





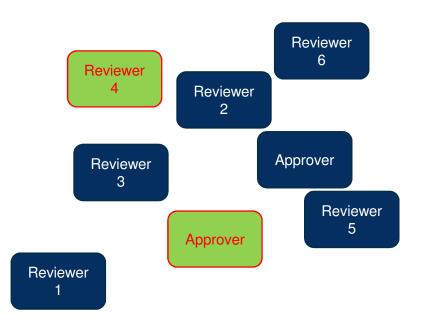


PRISM G2 REVIEW & APPROVE CYCLE



MONETARY APPROVAL – SIMPLE METHOD

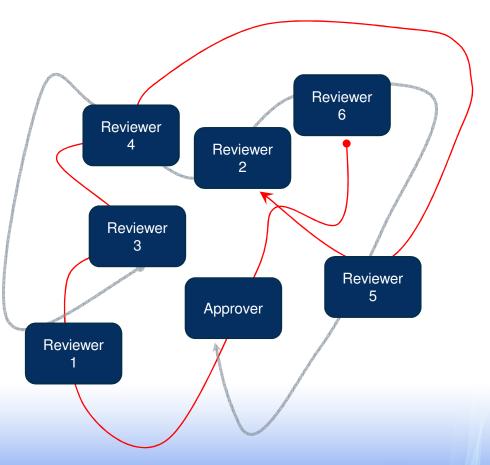
- Any one reviewer and any one approver must electronically sign the Change Order to approve it
 - Generate Approvers process identifies the change approvers for each control account affected
 - Copies the approvers to the Change Order; lists them all as "reviewers" and contacts them all via email
 - The reviewers with the sufficient authority level are identified as the Change Order approvers
 - Although there may be many qualified reviewers, the 'electronic signature' of one reviewer and one approver is sufficient to approve the Change Order





MONETARY APPROVAL – NO SEQUENCING

- Requires that all reviewers and one approver must electronically "sign" the Change Order, but in no particular order
 - The Generate Approvers process identifies the change approvers for each control account affected
 - Copies the approvers to the Change Order; lists them all as "reviewers" and contacts them all via email
 - The Change Order Approver is identified as the first reviewer with proper monetary authority level.
- All reviewers and the approver must electronically "sign" the Change Order but in no particular order
- Once <u>all</u> electronic 'signatures' have been obtained the change order is electronically approved.





MONETARY APPROVAL - IN SEQUENCE

- Requires that all designated reviewers and one approver must electronically "sign" the Change Order, in order of Authority level
- The Generate Approvers process determines the approvers based on control accounts affected by the Change Order
- Approvers with no monetary authority are automatically selected as reviewers
- Approvers with monetary authority are selected as reviewers in sequence of authority
- Change Order Approver is reviewer with proper authority level. Reviewer 6
- Reviewer 7 with authority level is not included
- Reviewers are contacted via emailed in sequence

Project personnel with monetary authority



Project personnel without any monetary authority



Authority Level

Approved Budget /

EAC Change of

\$950,000

MONETARY APPROVAL - MULTIPLE BUDGETS

- One Change Order affecting multiple budgets
- Same approvers have different monetary authority levels for Budget and Funding changes
- For both budgets, the change is reviewed in sequence prior to approval by 1st person with proper Authority level.
- Reviewer 7 is identified as the approver for the Budget Change
- Reviewer 6 is identified as the approver for the Funding Change
- Both changes must be approved for the transaction to be completed

Project personnel with authority threshold

Project personnel without no authority threshold



\$25,000,000

\$1,000,000

\$500,000

\$100,000

Budget Change \$1,250,000 **Funding Change**

Reviewer

Reviewer

6

Reviewer

Reviewer



required for budget

and funding changes



MONETARY APPROVAL – BUDGET TRANSFERS

Reviewer

- In this example there are different sets of control account approvers to approve each side of the transaction
- Though the net impact is \$0.00, the approval is treated as two transactions of \$950K. The Minus and Plus values are treated the same.
- Reviewer 6 is identified as the approver for Control Account A
- Reviewer 10 is identified as the approver for Control Account B
- Both changes must be approved for the Change Order to be approved

Project personnel with authority threshold

Project personnel without no authority threshold



Reviewe

Reviewer

6

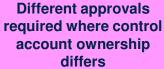
Reviewer

\$25,000,000

\$1,000,000

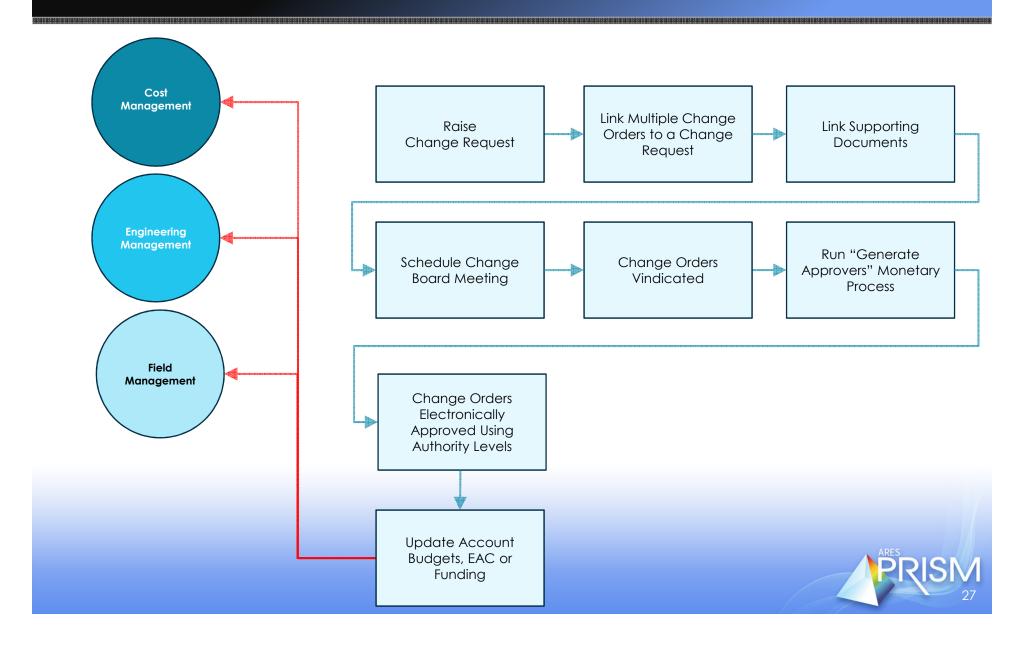
Control Account A Control Account B +\$950,000 -\$950,000



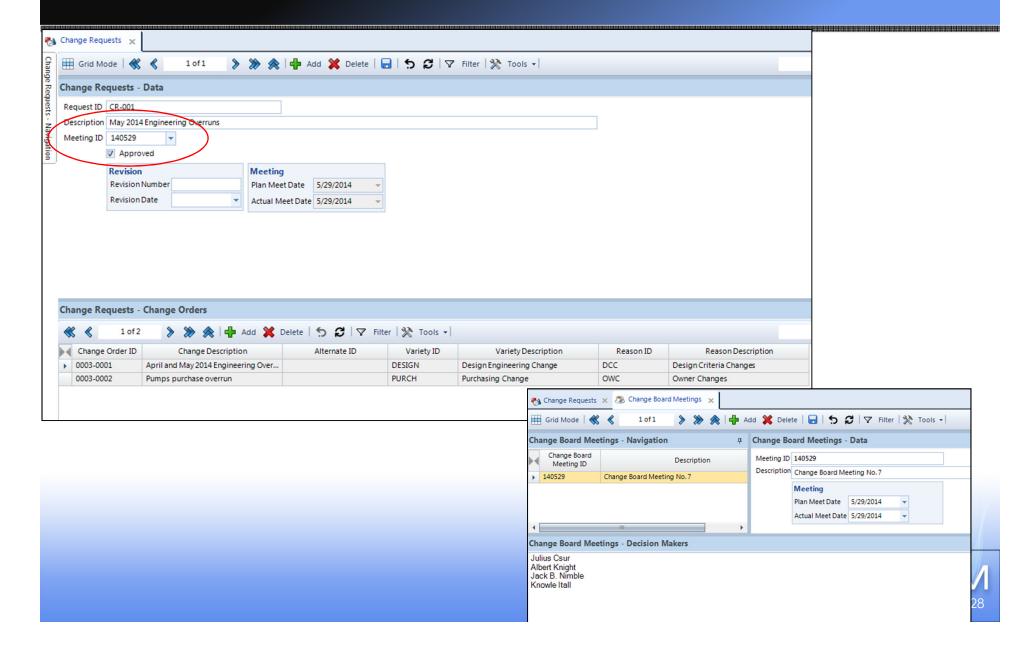




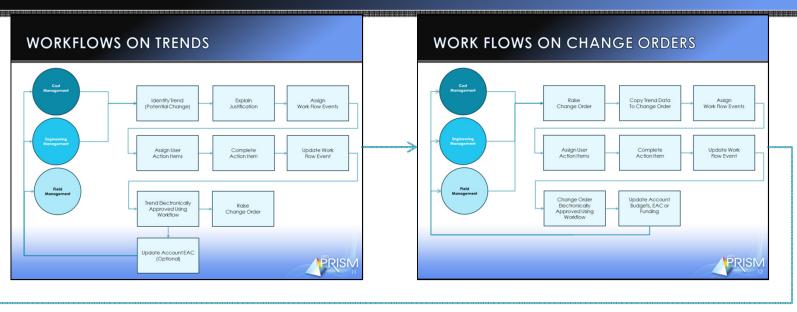
USE CHANGE REQUESTS

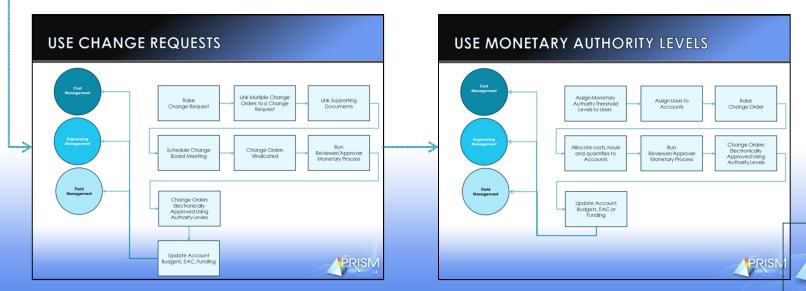


USE CHANGE REQUESTS AND CHANGE MEETINGS

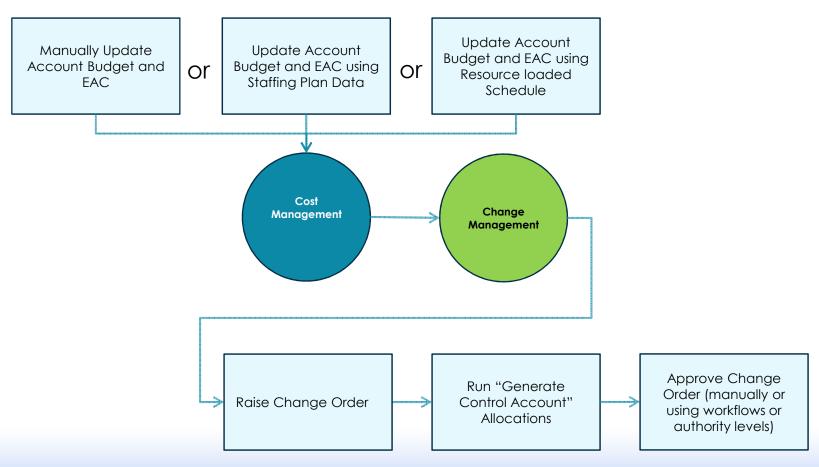


USE WORKFLOWS, CHANGE REQUESTS AND MONETARY AUTHORITY LEVELS





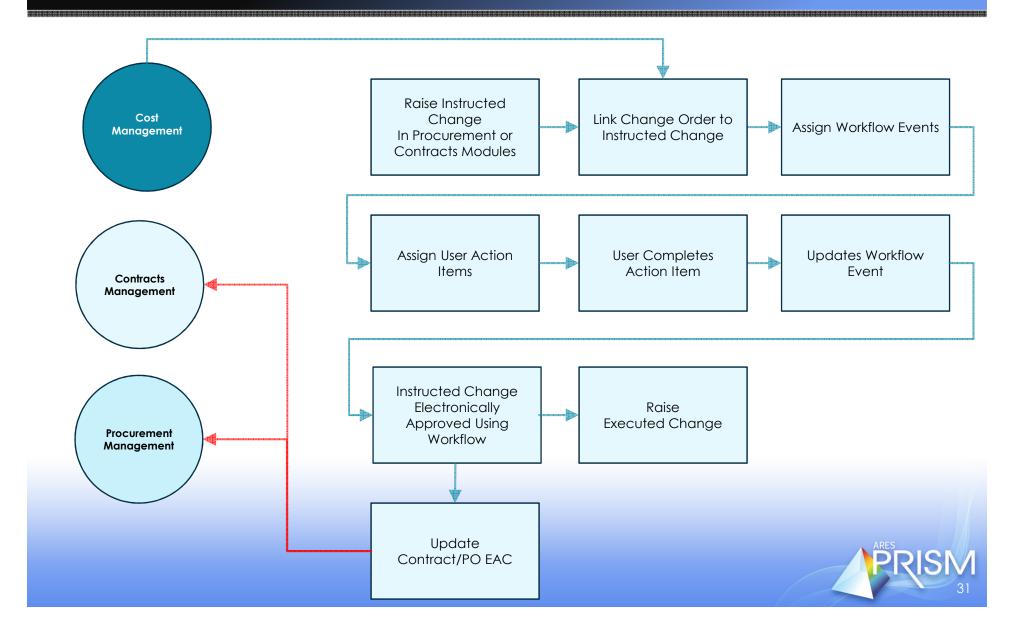
GENERATE CHANGE ORDER FROM EXTERNAL SOURCES



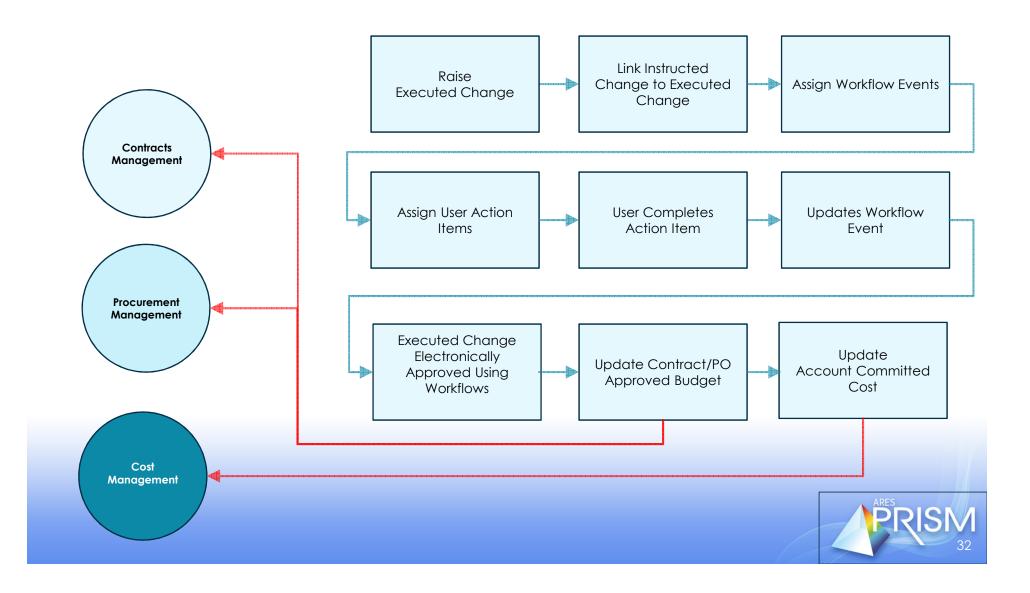
Provides an audit trail for external source changes



LINK CHANGE ORDERS TO CONTRACT/PO'S



LINK CHANGE ORDERS TO CONTRACT/PO'S



ENSURING DATA INTEGRITY

•	Incomplete data

- Irregular Values
- Wrong Change Type
- Wrong Budget
- Wrong Approval Method

	nt Change Data Checks
	k Description
01	Change or Detail Description not completed
02	Change Impact ID has not been selected
03	Change Variety ID has not been selected for a Trend Change
04	Change Status ID is not populated
05	Change Status Date is not populated
06	Request Date is not populated
07 08	Change Owner is not assigned Control Account IDs not assigned
08	Cost Element IDs not assigned
10	PGCP Change Incorrect - This either doesn't net to 0 or has monies against target accounts for CCB or Fin Budget
11	Approved Budget has no values - Impact id not in TRND, FPER, FUND, P50R, AWRD, COMP and Budget = 0
12	Trend Change that doesn't have AFC value
14	Funding Change that doesn't have an Fin Budget value
15	Cost or Schedule Impact has not been completed
16	Compensation change incorrect - Either doesn't net to 0 or has monies against ccb or fin budget on in correct account types (not TG, AL, CJ or CA)
17	Budget Transfer change incorrect - doesn't net to 0 or has monies against ccb on target accounts
18	Contract Contingency accounts being used
19	Change has been approved but status is not set to approved.
20	Incorrect Comp or Award. has no budget or fin budget
21	Incorrect Approval Method
22	Should be an PGCP (Indirects L&P) - Movement between Indirects and L&P to other areas on CCB and FinBudget



ROUTING REPORT

Who, when, how long, how often?

A	В	С	D	_	-
Change I -	Change Description	Change Owner	User Actioned	Action Required	▼ Date Notific ▼ Days Task
0074-6321	P&S-C340-PMI043-Revised C340 VDP Materials and Workmanship Specification	UTKAN KOCAK	KEVIN DAWES	Needs to Review	25/01/2013 4
	C305 - Royal Victoria DLR Station Trial Pits - further additional scope.	IAN WEAR	RICHARD STANIER	Needs to Review	25/01/2013 4
0075-0438	BT:P001-C132_Design costs for BOS ETH Out of Position Piles & WTH Plunge Column installed 795mm high	MARK MCCOLGAN	RIYADH ALKHAZRAJI	Needs to Approve	25/01/2013 4
0076-0028	LIS-C503 ICE00236 Repairs to Exisitng Platform 3 Precast planks	MIKE OGORMAN	DAMIAN LAMB	Needs to Approve	25/01/2013 4
0076-0130	C740 Escalator budget adjustment following project team review	DINESH CHAUHAN	WALTER MACHARG	Needs to Review	25/01/2013 4
0076-0181	C740 Escalator AFC adjustment following project team review	DINESH CHAUHAN	RON SURROCK	Needs to Review	25/01/2013 4
0076-0182	C730 Lift AFC adjustment following project team review	DINESH CHAUHAN	RON SURROCK	Needs to Review	25/01/2013 4
0076-0299	M021 - Settlement and Mitigation Budget Transfer to C310	DINESH CHAUHAN	AILIE MACADAM	Needs to Approve	25/01/2013 4
0076-0356	C510-BT-M021 to C510-Utility Connection Between Main & Piled Buildings	JONATHAN GREENFIELD	COLIN NICCOLLS	Needs to Approve	25/01/2013 4
0077-0046	C305 - BT from C305 to C121 Cross Passage Excavation Sequence Change	IAN WEAR	RAYNON FURTADO	Needs to Review	25/01/2013 4
0077-0067	P&S-C340-Track trolley runs along the DLR	UTKAN KOCAK	KEVIN DAWES	Needs to Review	25/01/2013 4
0077-0073	C305 - BT from C305 to C121 STG Stub Tunnel Removal Study.	IAN WEAR	RAYNON FURTADO	Needs to Review	25/01/2013 4
0077-0128	C140 WO 55 Rev 2 - TW replacements TM planning	RAYNON FURTADO	MARIELLA TSOPELA	Needs to Review	25/01/2013 4
0077-0129	C140 WO 55 Rev 2 - (BT) TW replacements TM planning	RAYNON FURTADO	MARIELLA TSOPELA	Needs to Review	25/01/2013 4
0077-0159	C122: WO-083 Rev 0 - Secondment of a RAMS Engineer to support CRL (Rhys Williams)	RAYNON FURTADO	GILES GRANGE	Needs to Review	25/01/2013 4
0077-0162	C122: WO-083 Rev 0 - (BT) Secondment of a RAMS Engineer to support CRL (Rhys Williams)	RAYNON FURTADO	GILES GRANGE	Needs to Review	25/01/2013 4
0077-0164	C122: WO-083 Rev 0 - Secondment of a RAMS Engineer to support CRL (Rhys Williams) - ICE	RAYNON FURTADO	RAYNON FURTADO	Needs to Approve	25/01/2013 4
0075-0103	R272 Increase in Recharge to Programme Contingency	ANDREAS CAREY BAILEY	KEITH SIBLEY	Needs to Review	24/01/2013 5
0075-0140	C435 - Tunnels - Pile Cutting - Documentary evidence to satisty Building Control	KAREN DICKSON	REZA HAJI	Needs to Review	24/01/2013 5
0076-0016	LIS-C503 ICE 00223 Infilling voids to 1-14 Liverpool St basements	MIKE OGORMAN	DAMIAN LAMB	Needs to Approve	24/01/2013 5
0076-0017	LIS-C503 ICE00224 Combined Instruction for the Duct rerouting in corridor 2/202	MIKE OGORMAN	DAMIAN LAMB	Needs to Approve	24/01/2013 5
0076-0018	LIS-C503 ICE00225 Cable Tunnel and shaft drainage instruction	MIKE OGORMAN	DAMIAN LAMB	Needs to Approve	24/01/2013 5
0076-0031	LIS-C503 Grouting up bleed holes in shaft	MIKE OGORMAN	DAMIAN LAMB	Needs to Review	24/01/2013 5
0076-0340	LU07 WHI - Costs for set-up of Whitechapel station Temporary Ticket Office (TTO) _ Design/Procure	LES STUBBS	JOHN MCGRATH	Needs to Review	24/01/2013 5
0076-0438	C512 WHI - ICE00038 Relocation of Scotch and Clip box	LES STUBBS	JOHN MCGRATH	Needs to Approve	24/01/2013 5
0077-0031	C122: WO-055 Rev 2 (BT) - Secondment of Rebecca Casey from Oct 2012 to Mar 2013	RAYNON FURTADO	SIMON LOH	Needs to Review	24/01/2013 5
0077-0032	C122: WO-065 Rev 1 - (BT) UIC GB Structure Gauge & TSI compliance	RAYNON FURTADO	SIMON LOH	Needs to Review	24/01/2013 5
0077-0115	C134: WO-021 Rev 1 - (OSD) - TCR Transaction Documents Production & Support - ICE	RAYNON FURTADO	RAYNON FURTADO	Needs to Approve	24/01/2013 5
0077-0122	M033(Connaugt Tunnel)-DLR Survey-schedule 9	ARASH NAZARIAN	CHAD LEGERE	Needs to Review	24/01/2013 5
0077-0130	C140 WO 55 Rev 2 - TW replacements TM planning - ICE	RAYNON FURTADO	RAYNON FURTADO	Needs to Approve	24/01/2013 5
	C510-AW-Division of responsibilities for Integrated Design of SCL	JONATHAN GREENFIELD	COLIN NICCOLLS	Needs to Review	23/01/2013 6
0073-5680	C300 - Additional Contractor's Management Staff costs due to managing increased scope of works	KOSTAS KIKIRAS	JAMES MOLLOY	Needs to Review	23/01/2013 6
0074-6100	C430 - ETH - Scope transfer from C430 to C136 due to casings cast into pile T130.	HAMZEH HABIB	NISRINE CHARTOUNY	Needs to Review	23/01/2013 6
	P&S-C340-PMI057 "Drill and Tap the 14" steel pipe found	UTKAN KOCAK	SOPHIE SAUSSIER	Needs to Approve	23/01/2013 6
	DOC COSTO OFFICE CONTRACTOR CONTR	UTICALICOOUC	0001115 041100150		

DATA VALIDATION

Over 20 data validation checks

Change Mar	nagement Data Ch	neck Report		
Change ID	JY STATUS_ID +	Change Description	Change Owner	Verification Check
0075-0078		C512 WHI - Scope associated with the installation of Lifts and Escalators at Whitechapel Station	BLES STUBBS	DC 8: Control Account IDs not assinged
□ 0075-0099	⊕DRAFT	□LIS - C501 Additional propping to support the floor slabs.	BSARAH MILES	DC 8: Control Account IDs not assinged
■ 0075-0339	■DRAFT	GC430 - WTH Additional costs to C430 due to C435 stand down GC430 - WTH Additional costs to C430 due to C435 stand down	⊕ HAMZEH HABIB	DC 8: Control Account IDs not assinged
■0075-0361	■DRAFT	Θ	■DANIEL VENN	DC 8: Control Account IDs not assinged
	4 11 11		Shephadd III	DC 1: Change or Detail Description not completed
∃0075-0380	□DRAFT	LIS - C502 - MEP Blomfield Box Level -1 and Stair Case Pressurisation Changes	□ DAMIAN LAMB	DC 8: Control Account IDs not assinged
30075-0386	⊕DRAFT	BLIS-C503 Removal and replacement of four floodlights from Ticket Hall A	BMIKE OGORMAN	DC 8: Control Account IDs not assinged
0075-0400		Transfer from C300 for the House of St Barnabus Monitoring Handover costs	∃ VINCENT FOGARTY	DC 8: Control Account IDs not assinged
30075-0444	⊟DRAFT	□L&P Capex AFC at P9	■MELISSA BROWN	DC 3: Change Variety ID has not been selected for a Trend Change
∃0076-0034	■DRAFT	BWHI C511 - Delayed Damages	■RICHARD TAYLOR	DC 8: Control Account IDs not assinged
∃0076-0051	⊕DRAFT	■WHI A042 - Journal transfer to Ops cost centres reducing forecast		DC 9: Cost Element IDs not assinged
Grand Total			W	

CHANGE TOTALS REPORT

Current state, Future state and the Potential state

sor Project Des	Contract_Description -	OBB	CCB	New CCB P	otential CCB	AFC	New AFC	Unresolved P	otential AFC	FinBudg	New FinBudge P	otential FinBuc
√est ⊕ P001 - Bon	d A014 - Bond Street Urban Realm											
St Station	1. POST - 600 - 1. 1990 - 1. 1974 - 5475	£5,198,463	£5,198,463	£5,198,463	£5,198,463	£5,198,463	£5,198,463	£0	£5,198,463	£5,198,463	£5,198,463	£5,198,460
0.0000000000000000000000000000000000000	C207 - Bond Street Station	£5,444,595	£6,764,871	£6,764,871	£6,764,871	£6,792,544	£6,792,544	£0	£6,792,544	£6,764,872	£6,764,872	£6,764,87
	C223 - Bond Street (Site Facilities)	£857,624	£845,977	£845,977	£845,977	£847,499	£847,499	£0	£847,499	£845,977	£845,977	£845,97
	C240 - Bond Street (Civils)	£2,906,204	£4,658,241	£4,658,241	£4,658,241	£4,671,198	£4,671,198	£0	£4,671,198	£4,658,240	£4,658,240	£4,658,240
	C410 - BOS Acess shafts & SCL Wrks	-£14,440,000	£0	£0	EO	£0	£0	£0	£0	EO		£
	C411 - BOS - Piling and Dia Wall	£44,686,494	£110,412,449	£110,412,449	£109,281,579	£100,669,723	£100,669,723	£3,145,000	£103,814,723	£110,412,452	£110,412,452	£109,281,58
	C412 - BOS Main Sta Wrks/Fit-	£190,736,576	£168,977,826	£168,977,826	£168,977,826	£177,946,810	£177,946,810	-£1,070,000	£176,876,810	£168,977,826	£168,977,826	£168,977,82
	LU03 - Bond Street	£41,331,600	£40,017,434	£40,017,434	£40,017,434	£29,137,733	£29,137,733	£2,084,998	£31,222,731	£40,017,434	£40,017,434	£40,017,43
	M005 - Bond St Highway Alterations	£473,448	£769,800	£769,800	£769,800	£769,800	£769,800	£0	£769,800	£769,800	£769,800	£769,80
(£0	£0	£0	£0	£0	£0	£0	£0	£0	2100,00
P0	01 - Bond St Station (Project_Des	cription) 40,175	£140,175	£140,175	£140,175	£140,175	£140,175	£0	£140,175	£140,175	£140,175	£140,17
Ro	ow: 1WE - West - P001 - Bond St S							£0				
100		20	£10,839,000	£10,839,000	£10,839,000	£10,838,301	£10,838,301		£10,838,301	£10,839,000	£10,839,000	£10,839,00
	P001 - Bond St Station	£0 £0	£28,212,093 -£5,060,000	£28,212,093 -£5,060,000	£29,789,629 -£5,060,000	£64,479,555 -£5,055,588	£64,479,555 -£5,055,588	£0 £0	£64,479,555 -£5,055,588	£28,212,091 -£5,060,000	£28,212,091 -£5,060,000	£29,789,62 -£5,060,00
- 5040	R132 - Recharges (Bond St Station)	20	-25,060,000	-25,060,000	-25,060,000	-25,055,588	-25,055,588	20	-25,055,588	-25,060,000	-25,060,000	-25,060,00
⊕ P010 -	A016 - Farringdon Urban Realm	17.00										
Farringdon		277112112			10.7000000				20012002			
Station		£4,305,947	£4,305,947	£4,305,947	£4,305,947	£4,305,947	£4,305,947	£0	£4,305,947	£4,305,947	£4,305,947	£4,305,94
	AX13 - Farringdon - Thames Water	£898,324	£887,679	£887,679	£887,679	£887,679	£887,679	£0	£887,679	£887,679	£887,679	£887,67
	AX14 - Farringdon - LUL East Ticket	£2,400,458	-£1	-£1	-£1	£0	£0	£0	£0	£0		٤
	AX18 - Enabling Works (Retained	£2,102,317	-£0	-£0	-£0	-£0	-£0	£0	-£0	£0	£0	٤
	AX19 - CLRL Works (Central Stations) -											
	Farringdon (IA2)	£45,702,223	£42,000,000	£42,000,000	£42,000,000	£42,000,000	£42,000,000	£0	£42,000,000	£42,000,000	£42,000,000	£42,000,00
	C209 - Farringdon Station - E. Ticket	£1,915,663	£1,491,897	£1,491,897	£1,491,897	£1,460,803	£1,460,803	£0	£1,460,803	£1,491,897	£1,491,897	£1,491,89
	C242 - FAR E Tokt Hall Civ Adv	£5,083,142	£5,249,646	£5,249,646	£5,249,646	£5,083,142	£5,083,142	£0	£5,083,142	£5,249,646	£5,249,646	£5,249,64
	C430 - FAR Station-Shaft/Piling/Dia	£22,634,805	£40,239,577	£40,239,577	£40,239,577	£41,388,187	£41,388,187	£5,310,000	£46,698,187	£40,239,576	£40,239,576	£40,239,57
	C435 - FAR Main Sta Wrks/Tun/Fit-	£388,738,484	£245,731,032	£245,731,032	£245,731,032	£248,494,313	£248,494,313	£62,973,000	£311,467,313	£245,731,032	£245,731,032	£245,731,03
	LU02 - BAR IMR Relocation	£4,370,117	£5,450,000	£5,450,000	£5,450,000	£4,056,968	£4,056,968	£0	£4,056,968	£5,450,000	£5,450,000	£5,450,00
	NR15: NR Asset Protection For C435	£0	£1,400,000	£1,400,000	£1,400,000	£1,470,000	£1,470,000	£0	£1,470,000	£1,400,000	£1,400,000	£1,400,00
	P010 - Farringdon Station	£0	£40,055,555	£40,055,555	£40,055,555	£96,760,110	£96,760,110	£0	£96,760,110	£40,055,554	£40,055,554	£40,055,55
⊕ 1WE0 - Area			210,000,000	210,000,000	210,000,000	200,100,110	200,100,110	-	200,100,110	210,000,001	210,000,001	210,000,00
Contingend												
y or Risk		£0	£55,491,016	£55,491,016	£55,491,016	£98,800,000	£98,800,000	£0	£98,800,000	£55,491,016	£55,491,016	£55,491,01
⊕ P028 - Old	C220 - Old Oak Common (Site	20	200,401,016	200,431,016	200,431,016	230,000,000	230,000,000	20	230,000,000	200,431,016	200,431,016	200,430,0
Oak	Facilities)											
Common -	r actitices)	*****	4700.004			4700.004		**		£700.004	£700.004	£700.00
Common-	0.000 0.100 1.00 1.00	£1,033,339	£736,034	£736,034	£736,034	£736,034	£736,034	£0	£736,034	£736,034	£736,034	£736,03
	C277 - Old Oak Common - Demolition	0000000	10000000	5353555	100000000	010101		1933	1100000000	700,000,000	10000000	021100
	of Depot Area 2	£465,550	£983,034	£983,034	£983,034	£983,034	£983,034	£0	£983,034	£983,034	£983,034	£983,03
	C280 - Old Oak Common Temp Bus	£6,865,659	£1,191,884	£1,191,884	£1,191,884	£1,056,608	£1,056,608	£0	£1,056,608	£1,191,884	£1,191,884	£1,191,88
	P028 - Old Oak Common - Enabling	£0	£72,452	£72,452	£72,452	£0	£0	£0	£0	£72,451	£72,451	£72,45
⊕ P030 -	AX17 - Contribution to development of											
Paddington	PIP											
Integrated		3557555										
Project		£1,201,831	£0	£0	£0	-£0	-£0	£0	-£0	£0	£0	
	C271 - PAD Int - Site Fac/Pile/Grnd	£8,425,838	£8,242,998	£8,242,998	£8,242,998	£7,289,786	£7,289,786	£0	£7,289,786	£8,242,999	£8,242,999	£8,242,95
	C272 - PAD Int - Main Works (incl	£35,096,484	£67,447,496	£67,447,496	£67,447,496	£68,982,832	£68,982,832		£89,408,912	£75,497,495	£75,497,495	£75,497,49
	P030 - Paddington Integrated Project	£0	£281,315	£281,315	£281,315	£26,322,846	£26,322,846	£0	£26,322,846	£281,315	£281,315	£281,3
	R131 - Paddington Integration					301,100,10	,,			22.4010		220,00
	Programme - C131 Recharge to LU	£0	-£3,277,168	-£3,277,168	-£3,277,168	-£3,277,168	-£3,277,168	£0	-£3,277,168	-£3,277,168	-£3,277,168	-£3,277,16
	It regramme - croff recharge to co	20	-50,511,100	.50,211,100	-20,211,100	.50,511,100	-20,211,100	20	20,211,100	20,217,100	60,1113,63	3

PAIN GAIN REPORT

Looks at the increase in forecast and helps determine the effect these movements will have on the program vs. the contractor's cost.

R	tefres h					Pai	n Gain							
					PRISMG2 Data Contractor Data									
Are *	Project *	Contract ID & Des	% Complete	CB	AFC	Comerical Issue	AFC - CI	PG PQT	Pain Gain	ECC	ECC • CI	Contractor Target	Contractor Forecas	Contractor Pain Gair
IVE - Ves	P001 - Bond St Station	C411 - BOS - Piling and Dia Wall	68.28	108,809,606	100,911,195	0	100,911,195	7,898,411	-1,554,033	116,708,018	116,708,018	103,793,562	98,284,189	-2,754,687
	1550000000	C412 - BOS Main Sta Wrks/Fit-out/M&E	0.00	168,977,826	177,946,810	0	177,946,810	-8,968,984	0	160,008,842	160,008,842	. 0	0	0
	P010 - Farringdon Station	C430 - FAR Station- Shaft/Piling/Dia Vall	66,66	44,269,577	45,638,187	0	45,638,187	-1,368,610	-1,223,031	42,900,966	42,900,966	42,511,742	43,435,979	462,119
		C435 - FAR Main Sta Wrks/Tun/Fit-out/M&E	5.36	219,796,848	223,063,028	0	223,063,028	-3,266,180	-3,730,158	216,530,667	216,530,667	215,162,504	282,321,151	33,579,324
		P010 - Farringdon Station	0.00	1,240,000	0	0	0	1,240,000	0	2,480,000	2,480,000	0	0	0
	P028 - Old Oak Common -	C280 - Old Oak Common Temp Bus Facility	100.00	1,191,884	1,056,608	0	1,056,608	135,276	0	1,327,160	1,327,160	1,191,884	1,191,884	0
	P030 - Paddington	C272 - PAD Int - Main Works (incl M&E)	77.21	84,997,496	94,177,495	15,000	94,162,495	-9,164,998	-13,599,749	75,832,498	75,847,498	88,427,636	92,632,060	2,102,212
	P031- Paddington	C405 - PAD Main Station Vrks-Fit Out/M&E	20.09	191,061,831	194,100,229	19,298,873	174,801,356	16,260,475	-10,726,910	207,322,305	226,621,178	153,156,997	226,990,539	36,916,771
	P060 - Tottenham Court	C421-TCR-Piling and Dia Wall	96.66	11,978,318	10,931,904	0	10,931,904	1,046,414	323,434	13,024,732	13,024,732	11,581,000	10,931,904	-324,548
		C422 - TCR Main Station Wrks/Fit-out/M&E	1.50	98,817,956	97,667,956	0	97,667,956	1,150,000	0	99,967,956	99,967,956	85,051,966	85,051,966	0
E-Ve	st Total		435.76	931,141,342	945,493,411	19,313,873	926,179,538	4,961,804	-30,510,445	936,103,145	955,417,018	700,877,291	840,839,672	69,981,191
2CE - Cent	P017 - Liverpool St Station	C216 - LIS Civ Adv Wrks - Util, svcs Pk	100.00	2,682,048	2,904,504	-582,024	3,486,528	-804,480	0	1,877,568	1,295,544	2,682,047	3,081,509	199,731
	1000300000	C501 - LIS Station Piling & Diap Wall	38.75	63,626,257	67,833,528	-92,000	67,925,528	-4,299,271	-2,535,116	59,326,986	59,234,986	73,951,091	77,367,332	1,708,121

CONTINGENCY DRAW DOWN REPORT

Original, Current, Residual Contingency.

% Contingency Committed vs Physical % Complete.

Risk Forecast.

→ P	ProjectDescription	- Calculation	P69	P70	P71	P72	P73
IL.	, our point of oration	goothingency ooo (por raiget)		20,070,002.12	60,010,006.16	20,010,002.12	E0,010,00E
- 1		Contingency CCB	29,046,692.12	28,973,031.12	28,858,679.12	28,763,579.12	28,476,570.3
		Approved Change (CCB - OBB)	0.00	73,661.00	188,013.00	283,113.00	570,121.0
		VAC (AFC - CCB, excluding risk)	-19,000,823.34	-11,315,614.34	-11,342,245.34	-11,437,345.34	-11,867,008.3
		Total Change (Approved Change + VAC)	-19,000,823.34	-11,241,953,34	-11,154,232.34	-11,154,232.34	-11,296,886.
		Residual Contingency (Original Contingency less approved budget changes and resolved trends)	48,047,515.46	40,288,645.46	40,200,924.46	40,200,924.46	40,343,578.
		P50 Risk Forecast	70,349,811.00	70,349,811.00	64,479,555.00	64,479,555.00	64,479,555.0
		Physical % Complete	23.00	24.50	25.66	27.28	27.5
		% of Original Contingency Committed	-65.41	-38.70	-38.40	-38.40	-38.0
		Residual Contingency as % of ETC	0.20	0.16	0.16	0.17	0.
0	P010 - Farringdon Station	Contingency OBB (p04 Target)	41,872,758.73	41,872,758.73	41,872,758.73	41,872,758.73	41,872,758.7
		Contingency CCB	41,872,758.73	40,602,984.18	40,602,984.18	40,567,984.18	40,154,087.4
		Approved Change (CCB - OBB)	0.00	1,269,774.55	1,269,774.55	1,304,774.55	1,718,671,2
		VAC (AFC - CCB, excluding risk)	700,216.75	-4,011,311.06	972,935.02	1,230,935.02	1,116,042.2
		Total Change (Approved Change • VAC)	700,216.75	-2,741,536.51	2,242,709.57	2,535,709.57	2,834,713.4
		Residual Contingency (Original Contingency less approved budget changes and resolved trends)	41,172,541.98	44,614,295.24	39,630,049.16	39,337,049.16	39,038,045.2
		P50 Risk Forecast	82,720,244.00	82,720,244.00	96,760,110.00	96,760,110.00	96,760,110.0
		Physical % Complete	19.14	19.98	21.06	22.04	23
		% of Original Contingency Committed	1.67	-6.55	5.36	6.06	6.7
		Residual Contingency as % of ETC	0.15	0.17	0.15	0.15	0.
.9	P028 - Old Oak Common - Enabling	Contingency OBB (p04 Target)	89,047.47	89,047.47	89,047.47	89,047.47	89,047.4
		Contingency CCB	89,047.47	72,451.47	72,451.47	72,451.47	72,451.4
		Approved Change (CCB - OBB)	0.00	16,596.00	16,596.00	16,596.00	16,596.0
		VAC (AFC - CCB, excluding risk)	-135,277.22	-135,277.22	-135,277.22	-135,277.22	-135,277.2
		Total Change (Approved Change • VAC)	-135,277.22	-118,681.22	-118,681.22	-118,681.22	-118,681.
		Residual Contingency (Original Contingency less approved budget changes and resolved trends)	224,324.69	207,728.69	207,728.69	207,728.69	207,728
		P50 Risk Forecast	0.00	0.00	0.00	0.00	0.0
		Physical % Complete	100.00	100.00	100.00	100.00	100.0
		% of Original Contingency Committed	-151.92	-133.28	-133.28	-133.28	-133.
		Residual Contingency as % of ETC	-1,019,657.68	-944,221.32	-944,221.32	-944,221.32	-944,221
0	P030 - Paddington Integrated Project	Contingency OBB (p04 Target)	5,856,744.40	5,856,744.40	5,856,744.40	5,856,744.40	5,856,744.
		Contingency CCB	5,856,744.40	5,712,592.44	5,712,592.44	5,712,592.44	281,315.
		Approved Change (CCB - OBB)	0.00	144,151,96	144,151.96	144,151,96	5,575,428.5
		VAC (AFC - CCB, excluding risk)	1,098,311.82	1,636,210.57	1,656,711.57	9,793,111.57	582,122.5
	P030 - Paddington Integrated P	roject (Project Description) Change • VAC)	1,098,311.82	1,780,362.53	1,800,863.53	9,937,263.53	6,157,551.5
	Row: 1WE - West - P030 - Paddir		4,758,432.58	4,076,381.87	4,055,880.87	-4,080,519.13	-300,807
	ROW: 1VVE - VVEST - POSO - Paddir	ngton integrated Project	12,621,292.00	12,621,292.00	34,372,846.00	34,372,846.00	26,322,846.0
		Physical % Complete	77.20	86.50	76.71	75.28	92.7
		% of Original Contingency Committed	18.75	30.40	30.75	169.67	105.
		Residual Contingency as % of ETC	-1.64	-0.45	-0.34	93.0	0.
0	P031 - Paddington Station	Contingency OBB (p04 Target)	21,990,685.57	21,990,685.57	21,990,685.57	21,990,685.57	21,990,685.
	North College and North Applicating Application of the College State of	Contingency CCB	21,990,685.57	21,977,861.57	21,990,685.57	21,990,685.57	21,736,279.
		Approved Change (CCB - OBB)	0.00	12.824.00	0.00	0.00	254,405.0

BENEFITS OF EFFECTIVE CHANGE MANAGEMENT

- Provide more accurate and quicker forecasts by:
 - Eliminating the need for 'wet' signatures, couriers, printers and meetings
 - Automating the update of Change status
- Eliminate the need for maintaining manually updated logs by:
 - Providing a single <u>live</u> source for identifying and approving of changes
 - Automatically informing other departments of the approval of Trends and Change Orders

BENEFITS OF EFFECTIVE CHANGE MANAGEMENT

- Efficient handling of multiple budget owners and approvers by:
 - Change reviewers and approvers automatically selected based on ownership and authority
 - Email notifications and reports monitor progress
 - The impact is immediate



BENEFITS OF EFFECTIVE CHANGE MANAGEMENT

- Eliminates changes that are out of governance by:
 - Making it impossible to break the rules.
- Publish cost reports within 4-5 days of month end by:
 - Treating changes in real-time and as an integral part of the cost management system.



QUESTIONS & ANSWERS





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