

Archer Batch Controls– Reporting



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PHILOSOPHY OF ARCHER REPORTING

Jonel Engineering's Archer Reporting Tool is a comprehensive report and production dashboard that enables companies to track the most leveraging Key Performance Indicators and business production statistics in the ready mix business on a daily basis. Key Performance Indicators are detailed metrics that can be quantified that directly or indirectly drive production results of the organization. Some examples of these reports include plant productivity, material usage, inventory and batch plant optimization.

By accurately identifying and tracking these performance metrics, Jonel clients are better able to:

- Realize their customer service vision,
- Focus on the most important fundamentals of the business,
- Eliminate waste,
- Rapidly implement best practice processes,
- Educate everybody on the team about how their role impacts financial performance, and
- Simplify their business by streamlining management reporting.

The Archer Reporting tool can be used to identify the key performance metrics for every level of the organization, and allow every level of management to rapidly identify instances and causes of inefficiencies during the day.

UNDERSTANDING DATA SOURCES AND REPORTING ARCHITECTURE

Archer Reporting Services are designed with flexibility in mind. Archer is designed to provide management access to vital production data without effecting the day-to-day plant production by the plant or batch operator. To service this need, Archer is designed as a client-server architecture.

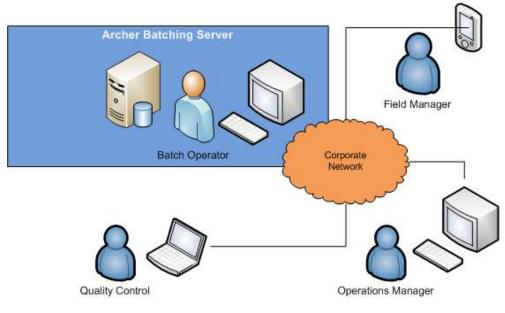


Figure 1 Archer Client Server Architecture

The system begins with the Archer Batching engine that resides at the plant. Information is then hosted through this system and disseminate throughout the enterprise. Having access to this information in real time, without having to interrupt the batch operator from their normal work flow, is critical to ensure that vital production information is accessed quickly, accurately and reliably.

REPORTING DASHBOARD

The Archer Reporting system is designed as a "dashboard" model. Think of an automobile there are gauges, lights and indicators that identify if your vehicle is operating at its optimum level, this is similar to looking at your production facility. When critical issues impact driving performance, the driver is alerted to these specific areas. Drivers in an automobile are not required to "run" a report, they simply look on the dash and see that something needs attention. Archer is designed with the same alert mechanism in mind.

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Think of the reporting dashboard as a blank canvas. With this canvas or dashboard you can overlay various aspects of your operation and its information content. Thus the dasboard can be tiled with multiple reports that are all displayed simultaneously. Similar to the automobile dashboard example, these reports can be grouped together and will automatically update based on inputs from the operation. As batches occur and inventory is depleted the information is automatically displayed on the screen.

CONFIGURING AND RUNNING REPORTS

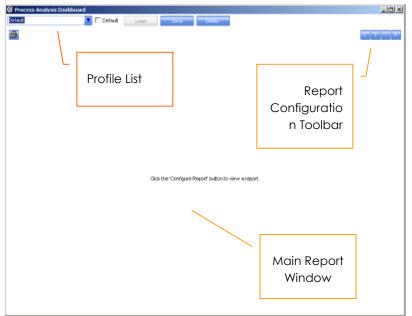
The Report system can be loaded by selecting the Report option located under the Archer Menu on

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Entrantic Serie, tails EditoAdd Hand Load Code Ticket	Eastel Load Sile Truck	And the paratrix is the plant of the plant o	Archer Menu	

the far right of the main window. The Report module is designed to use **Profiles**. Profiles are designed to allow users to save different layouts and report configurations. This allows the user to customize their dashboard based on their own preferences.

THE MAIN REPORT WINDOW

When you launch the Report system for the first time the main Report window will be displayed. This is



the screen users can generate a single – "ad hoc" report or set up a report profile that you can run every time the Report window is opened.

If a report Profile has not been setup then a blank Report window will be displayed.

Report Configuration Toolbar

The Report Configuration tool bar is on the far right of the Main report window. The toolbar has four buttons that

are used to control and setup new reports that can displayed on the Main Report Window. Each button is described below:

Icon Description

Function

C	Configure	Click this button to create a new report configuration. This button launches the Report Configuration Editor.
T	Split Vertically	Click this button to create a new report in the main report screen that is Vertically split with an existing report.
•	Split Horizontally	Click this button to create a new report in the main report screen that is Horizontally split with an existing report.
×	Close Report	Closes a launched report definition

Report Configuration

The Report Configuration Dialogue is used to run new reports from the Main report window. This window will appear when selecting the "C" button on the report configuration toolbar explained in the previous section.

		/ Report		
Date Ranj	ge			
One Mo	nth Ago			
From	Мау	20, 2008 💌	05:51 Pł	VI ×
то Г	May	20, 2008 💌	05:51 Pt	VI ×
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This window allows you to select the style of report and the input and filter parameters such as date ranges. The report configuration parameters differ based on the reports that are selected in the Report selection list at the top of the window. Once the report is selected the user is presented with the specific report options and filtering options of the report.

When the filtering options are selected you can press OK and the report will be generated with the filtering options selected.

Generating a Report

Single Report Output:

	Process Analysi: fault		Default Load	Save	Delete		
4	b						
			ventory S	ummary	Report		
-	Date Range: Month to Material Name		Automatic Quantity	Manual Quantity	Received Quantity	Used Quantity	End Quantity
۲	3/4" Rock		11840 lb	7360 lb	160 lb	14380 lb	0
	Fly Ash	-7090 lb	30905 lb	180 lb	0	22095 lb	-7090 lb
	Fresh	-4155 gal	6704.5 gal	95 gal	79.5 gal	5255 gal	-4155 gal
	Pea Rock	-175540 lb	225000 lb	480 lb	480 lb	176020 lb	-351080 lb
	Sand	-149760 lb	553620 lb	10740 lb	180 lb	474820 lb	-149760 lb
_	Type II/V	-27480 lb	116780 lb	965 lb	0	96220 lb	-27480 lb
_	V-MAR	-1010 floz	1010 floz	0	0	1010 floz	-2020 floz
_	wrda 64	-3708 floz	3708 floz	0	0	3708 floz	-7416 floz

Once the report is generated you can leave this report on the screen for "view only" mode or you can print the screen output by selecting the Print button at the top-left of the Report Window.

To generate a new report simple select the "C" button for Report Configuration toolbar. This will present you with another list of reports in the configuration screen.

Report Tiling

One unique feature to about the Archer Report system is that multiple reports can be tiled or grouped together on the dashboard. This allows users to provide them with multiple views and information content from various areas of operation, all in place, updating at the same time.

You can tile reports by using the Split Horizontal and Vertical button options on the Report Configuration Toolbar. Using the split Horizontal option will display a new report definition horizontally.

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5									
		Inv	ventory S	ummarv	Report				
D sé	e Mance: Month to 1								
1		Beginning Quantity					End Currelly		
	3/4" Rock	0	11840 lb	7360 lb	160 lb		0		
	Ply Ash	-7090 b	30905 b	160 lb	D	22095 b	-7090 lb		
_	Freeh Pea Rock	-4165 gel -175540 lb	6704.5 gel 225000 b	95 gal 460 la	79.5 ghl 490 b	6265 gel 176020 lb	-4165 gel -351060 lb		
-	Sand	-149760 lb	653620 lb	10740 lb	180 ID	474820 lb	-148760 lb		
-	Type I/V	-27480 b	116780 b	965 b	D	95220 b	-27480 b		
-	V-MAR	-1010 flog	1010 flog	0	0	1010 flog	-2020 flog		
_	wrdn 64	-3708 flog	3708 flog	a	D	3708 flog	-7416 flog		
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				Click the 'Configure	Preport Bullion to vi		Tile		
				Olds the 'Configure	Preport Eußonto vi		Tile	ontal	

In this mode, you can than select the Configuration button ("C") from the toolbar to select the new report and filter options you wish to view in the new report definition. If you wish to tile vertically simply select the Vertical tile option on the toolbar (). This will display new report definition with the reports displayed side by side.

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	-	-	tical Tile hfiguratio	n -		Ockthe	Configure Rep	off ballon to view a report.	

Once the tile report definition is setup, you can select the reporting options for the new report through the Report Configuration window by clicking the "C" button on the toolbar.

Saving Report Configurations

The Report dashboard can be saved under a profile so that layouts and report filter parameters can be stored for future use. To save a report profile simple type in the name in the Profile List text box at the top left of the main report window and then click the Save button.

You can also flag a report layout profile as Default. Default profiles are what get loaded each time the report system is selected from the main menu. To set a profile as the default, make sure to click the Default check box next to the Profile List and then click the Save button.

Auto Refresh

Archer Reports auto-refresh content. This allows users to keep the reporting system running on their desktop and the information content is automatically displayed on your dashboard.

ARCHER REPORTS

The Archer Reporting system has several standard reports that can be displayed for reporting and analysis purposes. This section describes each one of the standard reports in the system.

LOAD SUMMARY REPORT

The Load Summary Report provides both summarized and detail view of all loads batched from the system. This report is very helpful for operations managers in order to get a quick list of all batches or to look up a specific load to determine load accuracy, batch weights or any additional information pertaining to the load.

Report Inputs:

	nfiguration			
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Sort By				-
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Debe Mar	191			
Month	o Date	Υ.		
From	Tuesday ,	May	13,2008	Ψ.
То	Tuesday ,	Mag	13,2008	w.
Mix Dent	gn .			
		•		
Job Num	ber			
Truck N	inter			
Material				
		0		Cancel

The report contains various filtering criteria to assist users in locating a specific load or group or loads that were batched. The filtering parameters include:

- Date Range
- Mix Design
- Job Number
- Truck Number

The report can also be sorted by both ascending and descending order.

Report Output:

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						Loa	ds					
)ate Ri	ange Month	to Date		1	0.0.00000000000000000000000000000000000		0.000		Thereised	10000001	water states 1	
	Load Id	Truck Jo Jumber Numb	b Ticket Id ër	Product Code	Load Size		Load End	Target VV/C Ratio	Actual W/C Ratio	Water Trim	Allowed Water	
Ð.												
÷.	19	97	99799	16114	9.50 y3	5/1/2008 8:12:23 AM	5/1/2008 8:18:27 AM	0	0	3.00 gal		
ŧ.	20	113	99800	1604PS	9.50 y3	5/1/2008 8:19:01 AM	5/1/2008 8:23:28 AM	0	0	3.00 gal		
÷.	21	101	99801	1604PS	7.00 y3	5/1/2008 8:26:17 AM	5/1/2008 8:33:44 AM	0	0	5.00 gal		
÷.	22				9.50 y3	5/1/2008 8:34:13 AM	5/1/2008 8:38:56 AM	0	0	3.00 gal		
± /	23	<u>.</u>	_		4.00 y3	5/1/2008 8:39:39 AM	5/1/2008 8:43:12 AM	0	0	5.00 gal		
ŧ	25	Click to	o Expar	nd 🕅	9.50 y3	5/1/2008 8:47:05 AM	5/1/2008 8:51:45 AM	0	0	5.00 gal		
÷.	26	Detail	View		9.50 y3	5/1/2008 8:56:01 AM	5/1/2008 9:01:08 AM	0	0	5.00 gal		
ŧ.	27	Derail	1011		1.50 y3	5/1/2008 9:01:58 AM	5/1/2008 9:04:37 AM	0	0	5.00 gal		
÷.	28	119	33001	1000020	9.50 y3	5/1/2008 9:05:48 AM	5/1/2008 9:10:45 AM	0	0	5.00 gal		
+	29	85		1604PS	7.50 y3	5/1/2008 9:24:11 AM	5/1/2008 9:27:57 AM	0	0	5.00 gal		
÷.	31	89	99809	1604PS	9.50 y3	5/1/2008 9:36:44 AM	5/1/2008 9:49:11 AM	0	0	3.00 gal		
ŧ.	32	97	99810	16114	9.50 y3	5/1/2008 9:49:45 AM	5/1/2008 9:55:51 AM	0	0	3.00 gal		
÷.	33	117	99811	16114PS	9.50 y3	5/1/2008 10:05:50 AM	5/1/2008 10:11:33 AM	0	0	3.00 gal		
÷.	34	113	99812	1653	7.20 y3	5/1/2008 10:14:03 AM	5/1/2008 10:16:42 AM	0	0	20.00 gal		
÷.	35	105	99813	1604	9.50 y3	5/1/2008 10:17:46 AM	5/1/2008 10:23:22 AM	0	0	3.00 gal		
+1.	36	107	99814	1658020	6.50 y3	5/1/2008 10:32:27 AM	5/1/2008 10:36:45 AM	0	0	5.00 gal		
÷.	37	101	99815	1604PS	8.00 y3	5/1/2008 11:00:32 AM	5/1/2008 11:06:31 AM	0	0	3.00 gal		
ŧ.	38	109	99816	110	9.50 y3	5/1/2008 11:08:39 AM	5/1/2008 11:14:19 AM	0	0	3.00 gal		
÷.	39	111	99817	1653	1.50 y3	5/1/2008 11:19:01 AM	5/1/2008 11:22:58 AM	0	0	3.00 gal		
÷.	40	86	99818	16114PS	8.50 y3	5/1/2008 11:26:26 AM	5/1/2008 11:30:59 AM	0	0	5.00 gal	1	
±	41	113	99819	1604	9.50 y3	5/1/2008 11:52:04 AM	5/1/2008 11:57:58 AM	0	0	3.00 gal		
÷.	42	85	99820	16114	9.50 y3	5/1/2008 12:02:18 PM	5/1/2008 12:06:58 PM	0	0	3.00 gal		
÷.	43	117	99821	16114	9.50 y3	5/1/2008 12:08:32 PM	5/1/2008 12:13:33 PM	0	0	4.00 gal		
÷.	44	115	99822	110	9.50 y3	5/1/2008 12:30:38 PM	5/1/2008 12:36:08 PM	0	0	3.00 gal		
÷.	45	92	99823	16114	9.50 y3	5/1/2008 12:38:00 PM	5/1/2008 12:44:23 PM	0	0	3.00 gal		
÷.	46	97	99824	16114	9.50 y3	5/1/2008 12:45:35 PM	5/1/2008 12:52:10 PM	0	0	3.00 gal		
÷.	47	104		5641	10.00 y3	5/13/2008 9:58:22 AM	5/13/2008 10:03:59 AM	0	0	3.00 gal		
÷.	48	101	-	5641	8.00 y3	5/13/2008 10:07:46 AM	5/13/2008 10:27:10 AM	0	0	3.00 gal	6	
	49	10	151	5642	10.00 v3	5/15/2008 1:30:07 PM	5/15/2008 1:33:36 PM	0	0	3.00 gal		

Drill Down

The Load Summary report can be expanded to include specific details regarding a load.

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									Loa	ds								
	Ranse: Mentha Lond Id	o Draek Trruck	1.00	Tudout Id		Lond Stre								- 1	Actual		1. S. Browned	Norture
	N.	nter 1	kuniter.										Tary VOC Re	60	VVC Ratio	Trin	Vister	Viste
	18	109		99798	604PS	3.00 y3	6/	1/2008 7:37:0	XI.AM		2008 7:384			0	0	0.00 gal		
ł.	19	97		99799		9.50 y3		1/2008 8:12:2			2005 & 15:2			a	a			
۱Ľ	20	113		999800	604PS	9.50 y3	-6/	1/2008 8:19.0	MAN N	54.6	2008 8:23:2	28 AM		0	0	3.00.94		
	-					Mate	ria	ls										
	Viderial	Terpet		Actual	Abo	arption Mais		Moletane Auforstment	Autom		Manual Quarthy	Cutorf Error	Dozing Fector					
В	Pee Rock	9,405	.00 lb	9,700.001		0	0	0.00 lb	9,700.0		0.00	3.14	1					
B			5.55 lb	19,880.00	_	1.2		525.15 b	19,880		0.00	D.02	1					
В	Cenent	4,294	50 lh	4,285.001		0	0	0.00 lb	4,285.0	0.10	0.00	0.01	1					
B	B Fly Aah	1,073	50 lb	1,100.008		a	a	D.00 b	1,100.0	dь	0.DD	2.47	1					
В	Fresh	271.					0	-127.74 gel	236.50	99	0.00	-12.81	1					
B	witch 64	171.					α	D.00 flog:	174.00	for	0.DD	1.75	1					
B	VMAR	114.	CI	ick to	Fyn	and	0	0.00 floz	110.00	floz	0.00	-3.61	1					
В		D.00			•	ana	α	D.00 flog:	0.00 fto	12	0.00 for	a	D					
В		0.00	We	eigh I	Uр		0	0.00 floz	0.00 %	12	0.00 floz	0	0					
B	B Carci	D.00			- 1-		a	D.00 flog:	0.00 %	12	0.00 foz	a	D					
i F	21	101	112	000001	DIAFO	1.00 ya	5/	1/2008 8:26:1	7.4M	50.0	2008 8 33/	14 A.M		0	0	6.00 gal		
	22	105		99862		9.50 y3	57	1/2008 8:34 1	3.AM	54.0	2006 8 38-	MA 20		a	a	3.00 gal		
	23	111		99603	I604PS	4.00 y3	6/	1/2008 8:39:3	9.4M	54.6	2008 8:43:1	2 AM		0	0	6.00 gal		
1	25	107		99804	B114	9.50 y3	52	1/2008 8:47:0	S AN	54.0	2006 8:51	es am		a	a	5.00 gal		
۱Ľ	26	92		999805	1704PS	9.50 y3	6/	1/2008 8:56.0	H AN	54.6	2008 9:01:0	18 AM		0	0	6.00 gal		
1 C	27	85		39806		1.50γ3		1/2008 9:01:5			2005 9:04			a	a	5.00 gal		
۱Ľ	29	115		99807	658020	9.50 y3	5/	1/2008 9:05.4	18.4M	5/1/2	2008 9:10:4	45 A.M		0	0	5.00 gal		
١Ľ	23	85		99808		7.50 y3		1/2008 9:24 1			2005 9 27 3			α	a	5.00 gal		
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L	32	97		9981D		9.50 y 3		1/2008 9:49:4			2008 9 55:			a	a	3.00 gal		
	33	117			6114PS	9.50 y3		/200810.05/			008 10:11:			0	0	3.00.94		
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1	35	105		99613	604	9.50 y3	5/1	/2008/10:17>	彩山州	6/1/2	008 10:23	22.AM		0	0	3.00 gal		

Each Material can also be expanded to show load sequencing (weigh up and discharge) times and manual adjustments.

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en R	aner: Mintha	0.66												
	Lond Id 1 No	ruck Job Nev Number	Ticket Id Pri Co	ochart Long de	Size		•			Targe VVC Ref		Wider Trim	Allowed 1 Vister	
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	20	113	99800 60	04PS 9.9	60γ3 6	71/2008 B:19:0	MA. PO	54/2008 8:23	:28 AM	1	0 0	3.00 gel		
T.				N	lateri	als								
	Mederial	Terget	Actual	Assorption	Noidur	e Moletare	Asterat		Outoff	Daxing				
						Aductment				Fector				
	Pen Rook	9,405.00 lb	9,700.00 lb	0		0.00 lb	9,700.00		3.14	1				
B		19,875.55 b	19,880.00 b	1.2		5 828.15 b		0.00 d D	D.02	1				
P	Cenent	4,294.50 lb	4,295.00 lb	0	(0.00 lb	4,295.00	0.00	0.01	1				
	- Type IIA	/	5/1/2	006 8:19:01 A 006 8:20:06 A 006 8:21:45 A	M 5/1/2	008 8:19:20 A 008 8:21:45 A 008 8:22:05 A	M -2,79	5.00 lb						
	- Dea a			008 8.22:18 A		008 8.23:07 A		5.00 h	_					
æ	Fly Ash	1/073.50 b	1,100.00 lb	a	0	1 D.00 b	1,100.00	1 b 0.00	2.47	1				
×	Fresh	271.26 gel	236.60 gel	0	(1 -127.74 gel	236.50 g	0.00 ks	-12.81	1				
B		171.00 floz	174.00 floz	a		0.00 flog	174.001		1.75	1				
×	V-MAR	114.00 floz	110.00 flog	0		0.00 floz	110.001		-3.61	1				
₿		D.00 flog	D.00 flog	a		1 0.00 flog	0.00 flag			D				
申	Polerset	0.00 floz	0.00 floz	0		0.00 floz	0.00 %			0				
B	CarCl	D.00 flog	D.00 filoz	a		0.00 floz	0.00 flag	: 0.00 flaz	: a	D				
II.	21	101	99801 60	04PS 7.1	0γ3 6	/1/2008 8:28:1	17.AM	54/2008 8:33	044 AM		0 0	6.00 gal		
	22	105	99802 B1			V1/2008 B:341		5/1.0006 8:38			a a	3.00 gal		
	23	111	99803 60	MPS 4.	10γ3 6	/1/2008 8:39.3	39.AM	5/1/2008 8:43	12 AM		0 0	6.00 gel		
	25	107	99804 E/	14 9.5	t EγG	21/2008 B-47:0	IS AN	54,0008 8:51	AS AM		a a	5.00 gal		
1	26	92	99805 70	MPS 91	i0γ3 6	71/2008 B:56 D	MA.IN	51/2008 9:01	109 AM		0 0	6.00 gal		
	.29	2.6	000000183											

MATERIAL ACCURACY REPORT

The Material Accuracy Report is a graphical reports that allows operators to quickly identify plant issues by comparing the target vs. actual batch quantities.

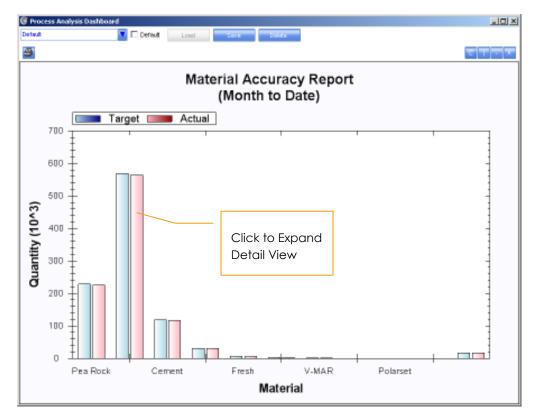
eport Con	ifigurati	on		
Report				
Material A	ccuracy	Report		
Date/Time	e Range			
Month to	o Date			
From	May	21,2008 💌	02:05 PM	*
То	May	21,2008 💌	02:05 PM	*
Mix Desig	jn			
Job Numb	ber			
Material				
Manually	Adjusted			
		ок		Cancel
		ON		Sancer

Report Inputs

The report contains various filtering criteria to isolate material batch requests. The filtering parameters include:

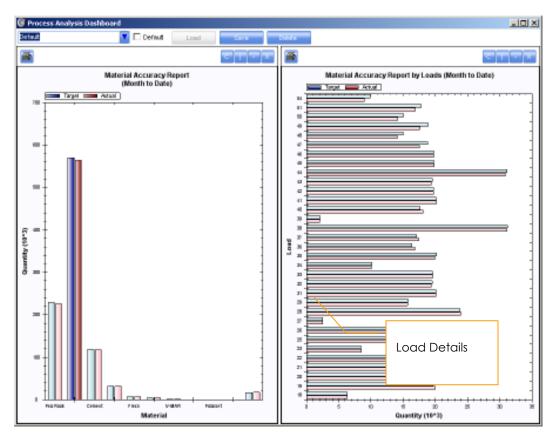
- Date Range
- Material
- Mix Design
- Job Number
- Manually Adjusted Loads

Report Output



Drill Down

By double-clicking on the Target Actual bar graph, you can drill down to all loads for the specific material to get further analysis on why a material may not be weighing properly.



DAILY PRODUCTION GRAPH

The Daily Production report displays the total product of the plant by day, by hour. The report also provides drill down on the each graph element to display each load that makes up the production for each hour.

🞯 Process Analysis Dashboard						
Detect	Cerinut Lond	Save	labeler -			
a						<u> </u>
		Daily Production G	raph (5.20/2008)			
	· · · · ·				0 tá té	2
		1	Ine			
						
		Loa	ads			1
	2003 and Tecoder, May 20, 2008 Totest to Product Lowel Size Code	Load Start	Load End	Target Voc fiato	Actual Weles	Alignmed Moldure Note Water Water
	6,700.00 b D		00.00 6 0.00	-12.52 1		
E Sand 17,796.62 b E Ceneral 6,345.00 b	16,880.00 lb 1.2 6,275.00 lb D		880.00 lb 0.00	-5.15 1		
	313.00 gal 0	0 -115.88 gal 313		-0.99 1		
B 1	9.00 y			a	a	
Materini Target Actual	Material Absorption Moleture Moletu Aduct	e Automatic Man	uni Outott Dosing nilty Error Factor			
4						>

AUDIT LOG REPORT

Capturing specific changes to the system including mix designs, loads and system parameters is important to ensure proper auditing of the system. The Audit Log Report details all changes made during the course of operation of the system.

Cadego	g Report			
Config	juration	Ψ.		
User				
Date for	ngi			
Today	()	w.		
From	Wednesday,	May	21,2008	Ψ.
Тр	Please adaption	May	21,2008	w.

Report Inputs

The report contains various filtering criteria to track specific users and categories of the system you wish to report on. The filtering parameters include:

• User

- Category
- Date Range

The categories are the different modules of the system that are audited these modules are listed below:

- Configuration all configurations files including free falls, scale calibrations, transfer devices and discharge rates
- Ingredients Raw Materials
- Product Product name, descriptions, etc
- Recipe mix design quantities
- Trucks

Report Output

Deta	ut.	T D 0	Media Lond	Save
3	1			
2				
				Audit Log
1	aneoure: Coarlauraica			
	4/16.0006 11:06:13 PM	Category	Operation User Lipitate	Charger al Node Dementa WhiScalet (Sinde Drew Mod
1				
-	4/16/2008 11:06:19 PM		Update	Note Elements'Autrest 'Single Draw Mod
-	4/16/2006 11:06:23 PM	-	Update	Node Elements'Adottots/2/Gingle Dnaw Mod
_	4/17/2008/8:03:51 AM	Configuration	Update	Split Definitions/Reclaim/Run Betare Bes
-	4/17/2006 8:40:39 AM	-	Update	Spit Definitions/Reclaim/Run Betore Dez
-	4/17/2008 9:16:17 AM	Configuration	Update	Systeminitial Water Trim Visit
		Configuration	Incert	Charging Sequences? ChargingSequenceNode Index=0/Contrand Index=0/Condition Index=
	4/17/2008 10:05:20 AM	Configuration	Delete	Oranging Sequences!*ChargingSequenceNode Index=OfStep Index=OfConnent/Index=OfCondition Index=
	4/17/2008 10:52:29 AM	Configuration	inzert	Charging Sequences/"ChargingSequenceNode Index=052ep Index=0Contrand Index=0Condition Index=
4		Configuration	Update	Node Benents/MtrSource1/Single Draw Mode
	4/24/2008 10:49:11 AM	Configuration	Update	Node Dements/VtrSource2/Single Draw Mod
	4/24/2008 10:50:03 AM	Configuration	Update	Note Elements/Aut/Tank1/Single Draw Mod
	4/24/2006 10: 50:07 AM	Configuration	Update	Node Elements/Ads/Tank2/Single Draw Mod
	4/24/2008 10:50:10 AM	Configuration	Update	Node Elements/Auk/Tank/HSingle Draw Mod
	4/24/2008 10:50:13 AM	Configuration	Update	Node Elements/Ads/Tank//Gingle Draw Mod
	4/24/2008 10:50:16 AM	Configuration	Update	Note Elements/AutoTant/SiSingle Draw Mode
	4/24/2008 10:50:21 AM	Configuration	Update	Node Elements/Ads/Tank5/Single Dnaw Mod
	4/24/2008 10:50:25 AM	Configuration	Update	Note Elements/Autr/Tenk7/Single Draw Mod
	4/24/2006 10:50:28 AM	Configuration	Update	Node Elements'Adv/Tenk8/Gingle Draw Mod
	5/1/2008 7:23:06 AM	Configuration	Update	Noile Elements'Loniout/Charge Enable Auto Rece
	5/1.02006 7:28:33 AM	Configuration	incert	PLC Setpoint/Setpoint
	5/1/2008 7:29:15 AM	Configuration	Update	PLC Setionts/Fivash Manual Aeration Auto Off Timer/Timer Value
	5/1.0008 7:29:15 AM	Configuration	Update	PLC Setpoints@tyach Variation Auto Off Timer/Device Nar
	5/1/2008 7:29:15 AM	Configuration	Update	PLC Setpoints/Fivesh Menuel Aeretion Auto Ott Timer/New
		Configuration	Update	PLC Setpoints/Flyach Manual Agration Auto Off Timer/Valu
	5/1/2008 8:24:24 AM	Configuration	Update	Systeminitial Viater Trim Vial
		Configuration	Update	Charging Sequences/"ChargingSequenceNode Index=0/Sep Index=0/Command Index=0/Condition Index=
	5/1/2008 11:28:26 AM	Configuration	Undate	Neasurement Devices/AugLon/Cett1Motion Setting Tim
		Configuration	Update	Weasurement Devices/VggLoadCell/Watton Tolerano
	51/2008 11:28:43 AM	Configuration	Undate	Measurement Devices/AggLoadCel11Motion Tolerano
	5/L2008 11:29:55 AM		Update	Measurement Devices/CenLoadCell/Wation Setting Time

INVENTORY SUMMARY REPORT

This report provides output for all inventoried items in the system.

Report Inputs:

port Cor	figurati	on		
Report				
Inventory	Summary	/ Report		
Date Ran	ge			
Month to	o Date			
From	May	21,2008 💌	03:13 PM 🗧	
то	May	21,2008 💌	03:13 PM 🗧	3
Vendor				
		OK	Cano	he l

The report contains various filtering criteria to track inventory usage, receipts and balances. The filtering parameters include:

- Date Range
- Vendor

Report Output:

Inventory Summary Report Texe Series Medite Date Indexed Name Report Automatic Automatic Automatic Name Countily Received Guardity Used Guardity End Guardity	Inventory Summary Report Exclose Factorio Date Microsoft Guards Microsoft Guards Microsoft Guards End Guards E	ta d	cess Analysis	🔽 🗆 Cei	feut Lond	Save	Dates			
Inventory Summary Report Exercise Media Data Exercise Media Data Medical Name Medical Name <	Inventory Summary Report Exercise Media Data Exercise Media Data Medical Name Medical Name <	5		_						
East Service Method Determine Automatic Description Indexed Neural Degraded Structure Automatic Description Neural Description Description	East Service Method Determine Automatic Description Indexed Neural Degraded Structure Automatic Description Neural Description Description			levi	antanı Ci		Donort			
334" Rock 0 11940 b 7203 b 160 b 14200 b 0 Fly Adh -7060 ln 30005 ln 190 lb 0 0 22065 lb -7060 ln Preval -4185 gal 6704 5 gal 93 gal 79 5 gal 5255 gal -4185 gal Pee Rock -175540 lb 225000 ln 490 lb 480 ln 176020 ln -361090 lb Sand -14790 lb 255000 ls 10740 lb 180 lb 474520 lb -414700 lb Type INV -27480 ln 116780 ln 965 lb 0 0 207480 ln V+AAVR -1010 facz D 0 1010 facz -27060 facz	334" Rock 0 11940 b 7203 b 160 b 14200 b 0 Fly Adh -7060 ln 30005 ln 190 lb 0 0 22065 lb -7060 ln Preval -4185 gal 6704 5 gal 93 gal 79 5 gal 5255 gal -4185 gal Pee Rock -175540 lb 225000 ln 490 lb 480 ln 176020 ln -361090 lb Sand -14790 lb 255000 ls 10740 lb 180 lb 474520 lb -414700 lb Type INV -27480 ln 116780 ln 965 lb 0 0 207480 ln V+AAVR -1010 facz D 0 1010 facz -27060 facz		Prototo de la contra de	IN V	entory St	immary i	Neport			
Fly Ash -7060 lb 30605 lb 160 lb 0 22066 lb -7060 lb Presh -4155 gal 6704 5 gal 95 gal 73 5 gal 5255 gal -4155 gal Pee Rock -179540 lb 225000 lb 490 lb 460 lb 17600 lb -30100 lb Sand -144760 lb 555620 lb 10740 lb 180 lb 474520 lb -144760 lb Type HV -27460 lb 955 lb 0 96520 lb 10710 fbc -27460 lb V-MAR -1010 fbcz 1010 fbcz 0 0 1010 fbcz -2020 fbcz	Fly Ash -7060 lb 30605 lb 180 lb 0 22066 lb -7060 lb Presh -4155 gal 6704 5 gal 95 gal 79 5 gal 5255 gal -4155 gal Pee Rock -179540 lb 225000 lb 490 lb 6400 lb 17600 lb -30109 lb Sand -144760 lb 553500 lb 10740 lb 180 lb 44520 lb -144760 lb Type HV -27460 lb 116760 lb 965 lb 0 65220 lb -27460 lb V-MAR -1010 faz 0 0 0 1010 faz -2020 faz	1	Autorial Name	Beginning Quantity Av	Annalic Cuardly	Menual Cuantity	Received Guertity	Used Cuardity	End Quartity	
Presh -4155 gal 6704 5 gal 95 gal 73 5 gal 5255 gal -4155 gal Pee Rock -175540 lb 225000 lb 490 lb 680 lb 175600 lb -301090 lb Sand -144760 lb 555820 lb 10740 lb 180 lb 474820 lb -144760 lb Type HV -27460 lb 116760 lb 965 lb 0 9620 lb -27460 lb V-MAR -1010 fbaz D 0 1010 fbaz -20200 fbaz	Presh -4155 gal 6704 5 gal 95 gal 73 5 gal 5255 gal -4155 gal Pen Rock -175540 lb 225000 lb 490 lb 480 lb 17600 lb -391090 lb Sand -144760 lb 555820 lb 10740 lb 180 lb 474620 lb -144760 lb Type HV -27460 lb 115780 lb 995 lb 0 98520 lb -27460 lb V-444R -1010 fbaz D 0 1010 fbaz -2020 fbaz								a	
Pee Rock -175540 lb 225000 lh 480 lb 480 lh 175020 lh -351080 lb Sand -143760 lb 553520 lb 10740 lb 180 lb 444500 lb -341080 lb Type IIV -27480 lh 116780 lh 965 lb 0 9620 lh -27480 lh V-MAR -1010 fbaz D 0 1010 fbaz -351080 fbaz	Pee Rock -175540 lb 225000 lh 480 lb 480 lh 175020 lh -351080 lb Sand -143760 lb 553520 lb 10740 lb 180 lb 444500 lb -341080 lb Type IIV -27480 lh 116780 lh 965 lb 0 9620 lh -27480 lh V-MAR -1010 fbaz D 0 1010 fbaz -351080 fbaz		Fly Ash	-7090 lb	30905 lb	190 lb	0	22096 lb	-7090 lb	
Sand -149790 b 553620 b 10740 b 180 b 474620 b -149790 b Type IIV -27480 b 116780 b 965 b 0 96220 b -27480 b V-MAR -1010 fsz 1010 fsz 0 0 1010 fsz -2020 fsz	Sand -149790 b 553620 b 10740 b 180 b 474620 b -149790 b Type IIV -27480 b 116780 b 965 b 0 96220 b -27480 b V-MAR -1010 fsz 1010 fsz 0 0 1010 fsz -2020 fsz		Fresh			95 gal				
Type IIV 27480 III 116780 III 965 Ib 0 96220 III 27480 III V-MAR 1010 float 1010 float 0 0 1010 float 2020 float	Type IIV 27480 III 116780 III 965 Ib 0 96220 III 27480 III V-MAR 1010 float 1010 float 0 0 1010 float 2020 float									
V-MAR -1010 foz 1010 foz 0 0 0 1010 foz -2020 foz	V-MAR -1010 foz 1010 foz 0 0 0 1010 foz -2020 foz									
wrose 643706 floz 3706 floz 0 0 3706 floz 7416 floz	wroe 64 -3006 floz 3006 floz 0 0 3706 floz -7416 floz									
			wrda 64	-3708 floz	3708 floz	0	0	3708 floz	-7416 floz	

MATERIAL RECIEPT REPORT

The Material Receipt Report shows all receipts for inbound materials into the Archer batch system.

Report Input:

eport Con	figurati	on		3
Report				
Inventory	Summary	/ Report		<u> </u>
Date Ranj	ge			
Month to	Date			
From	May	21,2008 💌	03:13 PM	-
To	May	21,2008 💌	03:13 PM	- #-
Vendor				
		OK		ancel

The report contains various filtering criteria to track a material receipts. The filtering parameters include:

- Date Range
- Vendor

Report Output: