



Real-Time Plant Monitor

The Real-Time Plant Monitor (RTPM) is an application designed to provide plant operators with a simplified view of production information across multiple plants and multiple projects. Viewable from anywhere within the organization, RTPM makes current information common knowledge for everyone on your team.



Figure 1

Common Sense Views

The Real-Time Plant Monitor provides a simplified means of viewing production information. Each plant is shown with a different color theme, making it easier to correlate the tickets from the Recent Tickets grid with the originating plant.

The Interface

Designed as a web page, the interface can be viewed by a user just like a web page. Designed as an ASP.Net solution, the Real-Time Plant Monitor is an optimized interface with great response time for the user. The interface includes a refresh button for those who need the display updated more frequently than once a minute. A snapshot of the default page is shown in Figure 1. Figures 2-5 provide additional views.

The Process

The Real-Time Plant Monitor is a read-only view of data from your load-out system, so there isn't much process from the user's perspective. Data is drawn from the load-out system and displayed in a convenient format. Once installed and integrated into your network, your network users can view the Real Time Plant Monitor just as they view any web page: open the web browser, such as Internet Explorer, enter the page address and hit Enter. The top of all Real Time Plant Monitor pages contain links to the other views. Simply point and click.

Built On

- Microsoft SQL Server 2000/2005 ©
- Microsoft .Net Framework ©
- Internet Information Services ©
- Libra Systems Enterprise Information Server ©

The RTPM is a read-only view of data drawn from your Libra EIS load-out system. This data is based on load-out Tickets, providing information on project and customer IDs, names, number of loads, tons per customer, and class of materials. Summary views display project names, customer names, project numbers, total tons, and total loads.

The RTPM allows multiple users to work with and view data simultaneously which will increase your productivity by keeping everyone in your company up to date. Since RTPM provides data on the fly, status calls to plant operations are virtually eliminated.

No data entry is required. All data is drawn automatically from your Libra EIS database.

The Project Detail Page

(fig. 3) provides an informative summary about the selected Project. The chart in the upper right corner of the page shows the comparative volume this project took from each plant in tons and loads. The middle of the page shows the selected project number and name, as well as the date range within which this project has acquired material from all plants. The three charts provide different summaries of the transactions for this project: a summary by type of material, a summary of transactions by month/plant, and a summary of transactions by truck ID.



Figure 3

The Customer Detail Page

(fig. 5) provides an informative summary about the selected Customer in the same fashion as the project detail page. The chart in the upper right corner of the page shows the comparative volume this customer took from each plant in tons and loads. The information in each data grid can be exported to Microsoft® Excel by right-clicking the data grid and selecting Export to Microsoft® Excel.

Figure 5



Project No.	Name	Loads	Tons	First Date	Last Date
1925	CVF Apcon Reconstruction at 101 Woodward Marshall	10	174.73	10/20/2008	5/14/2009
2015	Danco	1	5.14	10/20/2008	10/27/2008
2068	Central Maine Terminal-Cumans Inback	10	211.22	11/21/2008	12/22/2008
1976	Emergency Powerhouse LDCU Capable	84	1,683.82	3/24/2008	11/14/2008
176	FL mobile	2	2.00	12/23/2008	12/23/2008
1974	Fulton Avenue Median from Franklin Street to Pine	77	1,563.20	4/6/2008	9/7/2008
2041	Plant FFF Warehouse Expansion Paving	172	3,491.56	8/25/2008	12/23/2008
2039	GIANT Foods Jesso and FFF 2008 Var. Pavers	114	2,185.52	7/29/2008	9/15/2008
2009	Dynex Falls	2	2.00	9/22/2008	9/22/2008
1750	104302	14	331.71	9/23/2008	11/7/2008
1963	Howard County 2007 Parking Lots Ridge Rd Marler	26	533.21	5/13/2008	9/24/2008
2036	Howard County 2008 Various Roads	980	20,360.01	7/20/2008	11/6/2008
2071	Howard County Montgomery Rd from US 6 to Route 1	5	123.30	12/19/2008	12/19/2008
2047	Howard County Utility Practing Various Locations	19	323.22	9/24/2008	11/10/2008
1968	Howard Co 2007 Various Rd Resurfacing	1,548	42,291.84	3/17/2008	8/13/2008
105	Jesso	68	68.00	12/29/2008	12/29/2008
2058	AS/APs	19	401.88	10/4/2008	10/11/2008
1945	AS/APs Road Paving of Small Scope Paving Devices	73	1,365.82	8/11/2008	8/11/2008
104	L&L 104	1	1.00	10/17/2008	10/17/2008
1720	Local Port Industrial Road Key Highway to Hutch	9	96.44	5/7/2008	11/21/2008

Figure 2

The Project List Page

(fig. 2) provides a list of all projects with Transactions in the Libra EIS database. The projects are sorted alphabetically by default. Note that the column headers are links that allow the user to select the column by which the list is sorted. The Project Name values also serve as hyperlinks to the details for that project; simply click a link to view more details about a project.

Customer Number	Name	Loads	Tons	First Date	Last Date
8380	Burgmaster Soil	23	273.48	4/20/2008	12/20/2008
8242	SBP Paving	1	3.97	9/6/2008	9/6/2008
8347	C. Jones Trailing, LLC	11	184.65	3/6/2008	9/15/2008
8301	Carp-Sock Corp.	1	11.71	7/17/2008	7/17/2008
8048	Carroll Independent	5	83.26	6/6/2008	7/6/2008
8150	Center Paving & Excavating	586	11,578.06	3/24/2008	11/11/2008
8014	Clark Sales	869	5,744.21	1/11/2008	12/7/2008
8082	Clawson Contractors & Son Inc.	298	2,099.28	1/26/2008	10/7/2008
8006	Central Maintenance Corp.	411	6,678.47	3/12/2008	12/7/2008
8035	Chamberlain Const. Inc.	45	873.08	8/13/2008	9/11/2008
8320	Charles Tillman Paving	144	2,872.29	5/7/2008	10/7/2008
8344	Civil Construction, LLC	99	900.54	10/12/2008	1/21/2009
8110	Clonigan Construction Co.	4	11.39	9/15/2008	8/26/2008
8069	Coastal Contracting	24	197.11	7/17/2008	11/3/2008
8089	Cotton Construction Co.	25	232.72	3/15/2008	12/15/2008
8348	Crowell Asphalt	10	160.36	3/14/2008	3/29/2008
8230	CTO, Inc.	78	822.28	3/14/2008	1/6/2009
8314	Danco Construction	8	37.57	10/12/2008	9/2/2008
8389	Daly's Landscapes	484	3,188.87	1/26/2008	12/7/2008
8263	Day and Sons Inc.	21	76.87	9/23/2008	12/23/2008

Figure 4

The Customer List Page

(fig. 4) provides a list of all customers with Transactions in the Libra EIS database. As data is accumulated in EIS, your customer list will grow quite long. The Customer List provides an alpha-index that allows you to filter the list of customers alphabetically. The Customer Name values serve as hyperlinks to the details for that customer; simply click a link to view more details about a customer.