

Maintenance and Material Management System (M3)

Oral Update for January 2006 Operations
Committee



WEEKLY ASSESSMENT

19 JANUARY 2006

Financial Status

	<u>CONTRACT CASH FLOW</u>	<u>STAFF LABOR COSTS (NOV)</u>
<u>NOV 2005 BALANCE</u>	\$ 310,926	\$241,015
<u>LESS DEC 2005 AMT</u>	\$ 168,587	\$ 9,791
<u>BALANCE</u>	\$ 142,339	\$231,224
<u>RISK RATING</u>	LOW	NONE
<u>TOTAL RETENTION</u>	\$ 878,367	---

Schedule Status

<u>MAJOR ACTIVITY</u>	<u>TIMEFRAME</u>	<u>COMMENTS</u>	<u>RISK RATING</u>
<u>TIMEKEEPING PILOT</u>	JULY (REV 1)	COMPLETE	NONE
<u>TIMEKEEPING IMPLEMENTED</u>	SEPTEMBER (REV 1)	COMPLETE	NONE
<u>SAN GABRIEL VALLEY</u>	SEPT - OCT (REV 1)	COMPLETE	NONE
<u>WESTSIDE / CENTRAL</u>	SEPT - OCT (REV 1)	COMPLETE	NONE
<u>GATEWAY CITIES</u>	OCT - NOV	COMPLETE	NONE
<u>SOUTH BAY</u>	OCT - NOV	COMPLETE	NONE
<u>SAN FERNANDO VALLEY</u>	NOV - DEC	COMPLETE	NONE

Business Unit Status

<u>STARTED IMPLEMENTATION</u>	<u>IMPLEMENTED W/O TIMEKEEPING</u>	<u>DAILY USE</u>	
		RAIL WAYSIDE	RRC
		SAN FERNANDO VALLEY	GATEWAY CITIES
		BUS FACILITIES	MATERIALS
		SOUTH BAY	SAN GABRIEL VALLEY
			RAIL FLEET SERVICES
			WESTSIDE /CENTRAL
			FACILITIES

Discussion

ISSUES: Timekeeping
Kiosk Reliability
Close-Out
Delay Claim
M³ Users Group

ACHIEVEMENTS: Rollout
Payroll



FUNCTIONAL STATUS BY LINES OF BUSINESS

19 JANUARY 2006

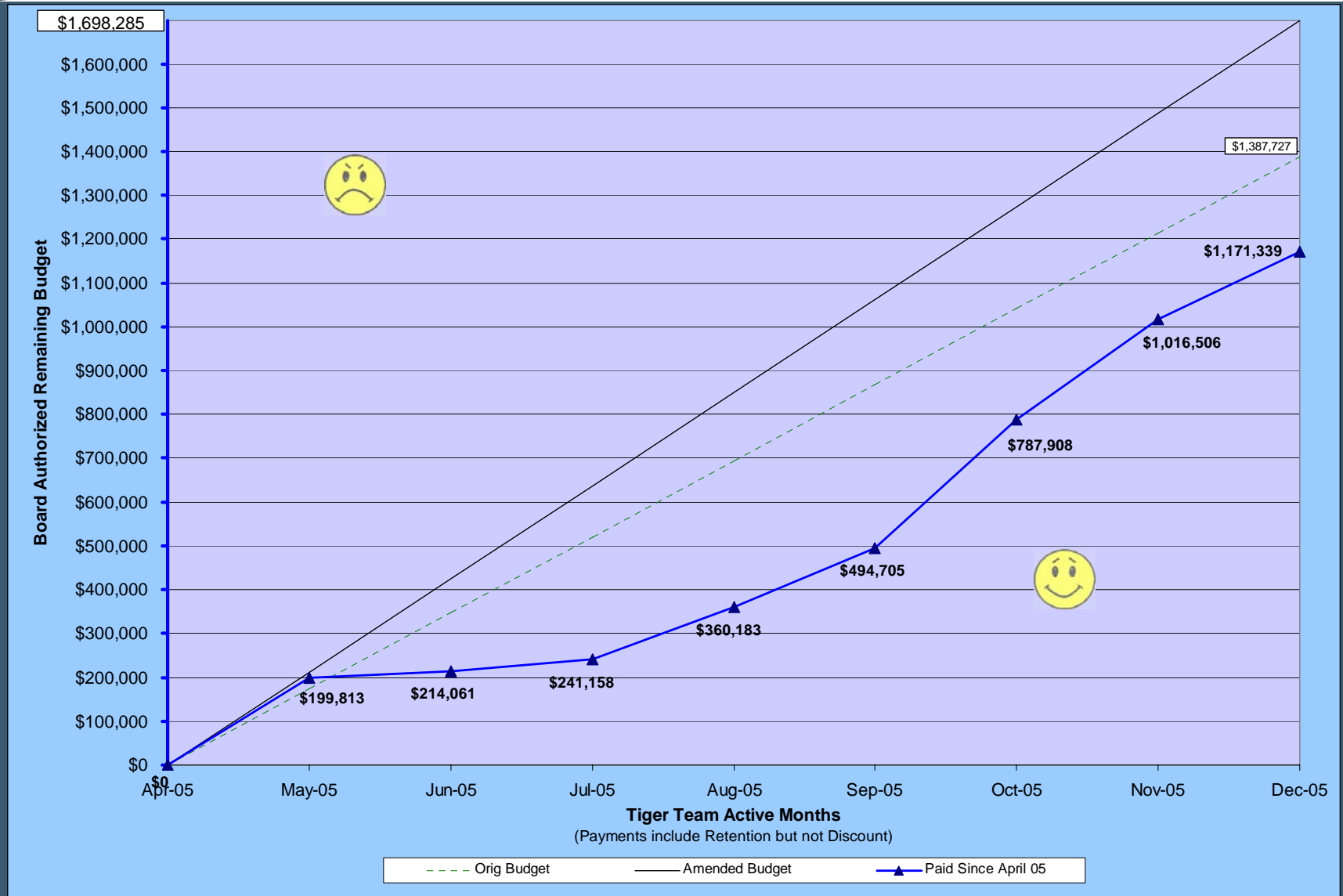
LINE OF BUSINESS →	RRC	MATERIAL	ROC	RAIL FLEET SERVICES	FACILITIES	WAY SIDE	NON REVENUE	BUS SECTOR # 1	BUS SECTOR # 2	BUS SECTOR # 3	BUS SECTOR # 4	BUS SECTOR # 5	BUS FACILITIES	COMMENTS ↓
MODULES ↓														
Fleet Watch	n/a	n/a	n/a	n/a	n/a	n/a	5	5	5	5	5	5	n/a	Functionality Complete
Forecasting	n/a	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Functionality Complete
Preventative maintenance	5	n/a	n/a	5	5	5	5	5	5	5	5	5	5	Functionality Complete
Work Order	5	5	n/a	5	5	5	5	5	5	5	5	5	5	Functionality Complete
Inventory	5	5	n/a	5	5	5	5	5	5	5	5	5	5	Functionality Complete
Timekeeping	5	n/a	n/a	5	5	5	5	5	5	5	5	5	5	Functionality Complete
Warranty	5	5	n/a	5	5	5	5	5	5	5	5	5	5	Functionality Complete
Incident Reporting	n/a	n/a	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Functionality Complete
Road Calls	n/a	n/a	n/a	n/a	n/a	n/a	5	n/a	5	5	5	5	n/a	Functionality Complete
Motor Pool	n/a	n/a	n/a	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	n/a	n/a	Enhancement Requested

Legend: = Changed Since Last Report 3 = Application Effectively Rolled Out
 1 = Data Conversion is Approved 4 = Practical Usage Occurring
 2 = Interface/Integration Work is Approved 5 = Business Unit Acceptance of Module



CUMULATIVE PAYMENTS AGAINST CONTRACT PRICE

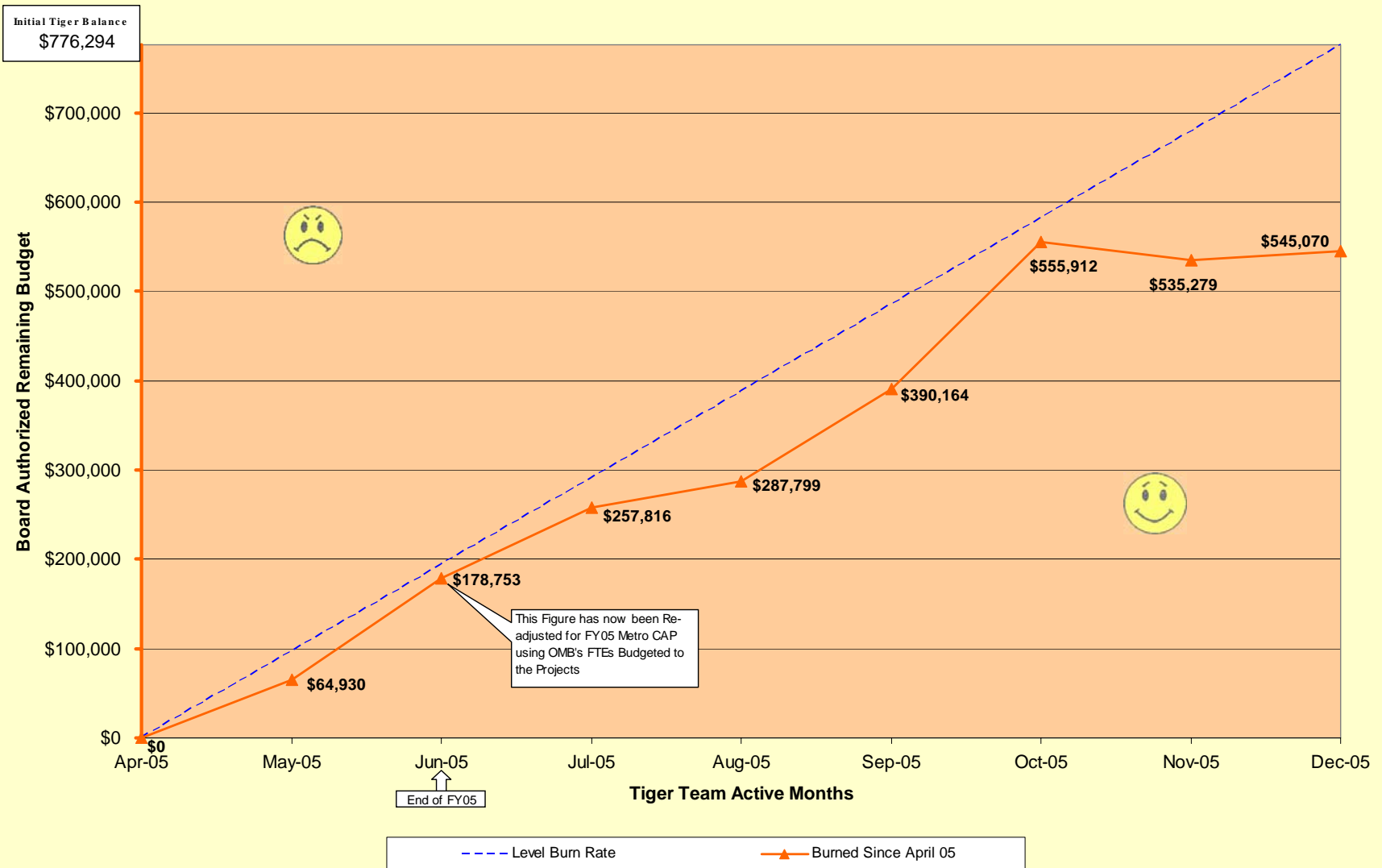
19 JANUARY 2006





CUMULATIVE STAFF LABOR DOLLARS CHARGED

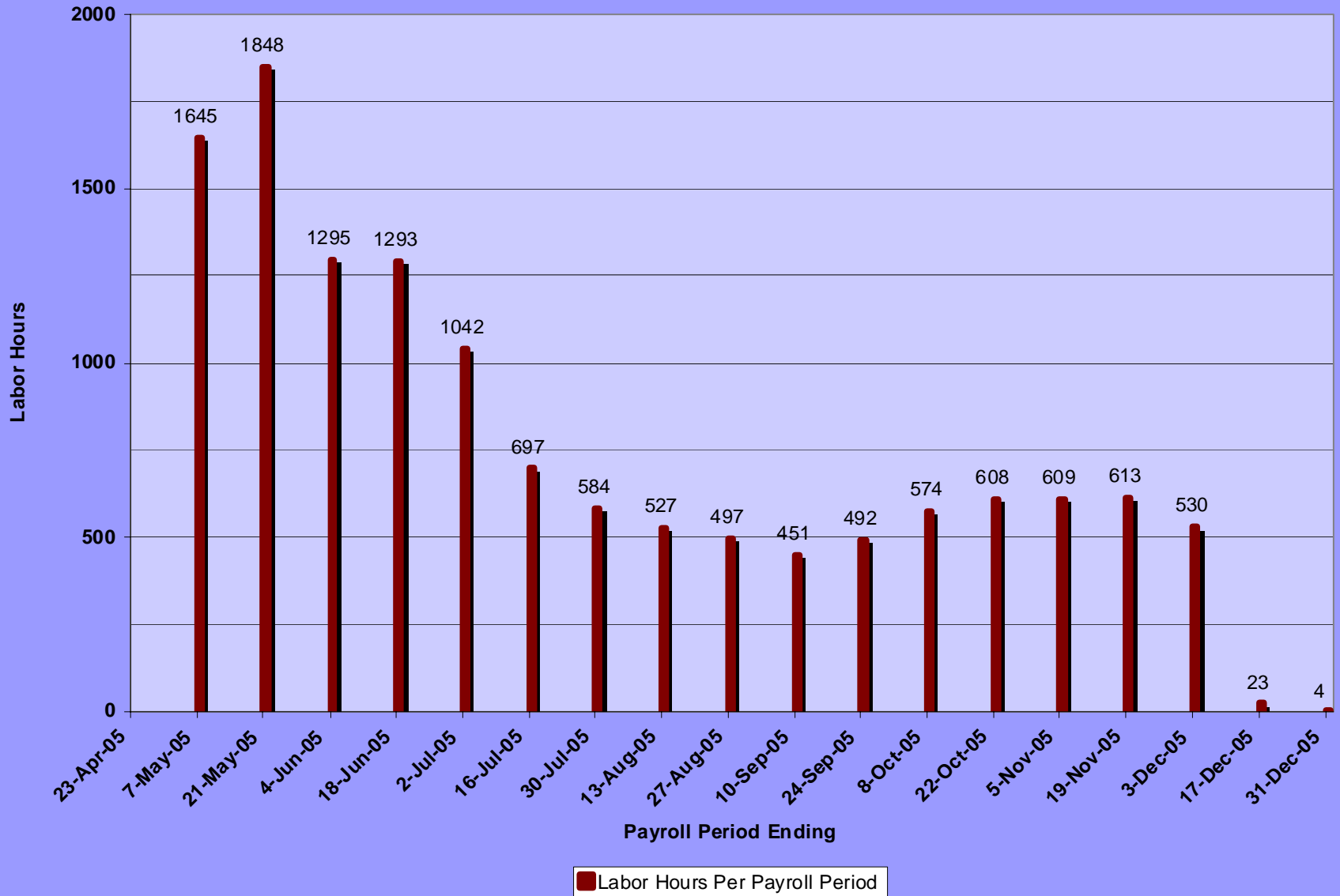
19 JANUARY 2006





PERIOD STAFF LABOR HOURS CHARGED

19 JANUARY 2006





CONTRACT BUDGET STATUS

(Life of Contract)

19 JANUARY 2006

• Board Authorized	\$ 18,976,212
• Board Authorized	<u>\$ 1,900,000</u>
• Sub-Total Board Authorized	\$ 20,876,212
• Board Authorized	<u>\$ 1,698,285</u>
• Total Board Authorized	\$ 22,574,497
• Total Obligated	<u>(\$ 22,484,970)</u>
• Remaining Unobligated	\$ 89,527
• 2% Credit Adjust For Early Payment	<u>\$ 212,817</u>
• Total Unobligated Funds	\$ 302,344
• Pending Claims/Changes	\$ 0



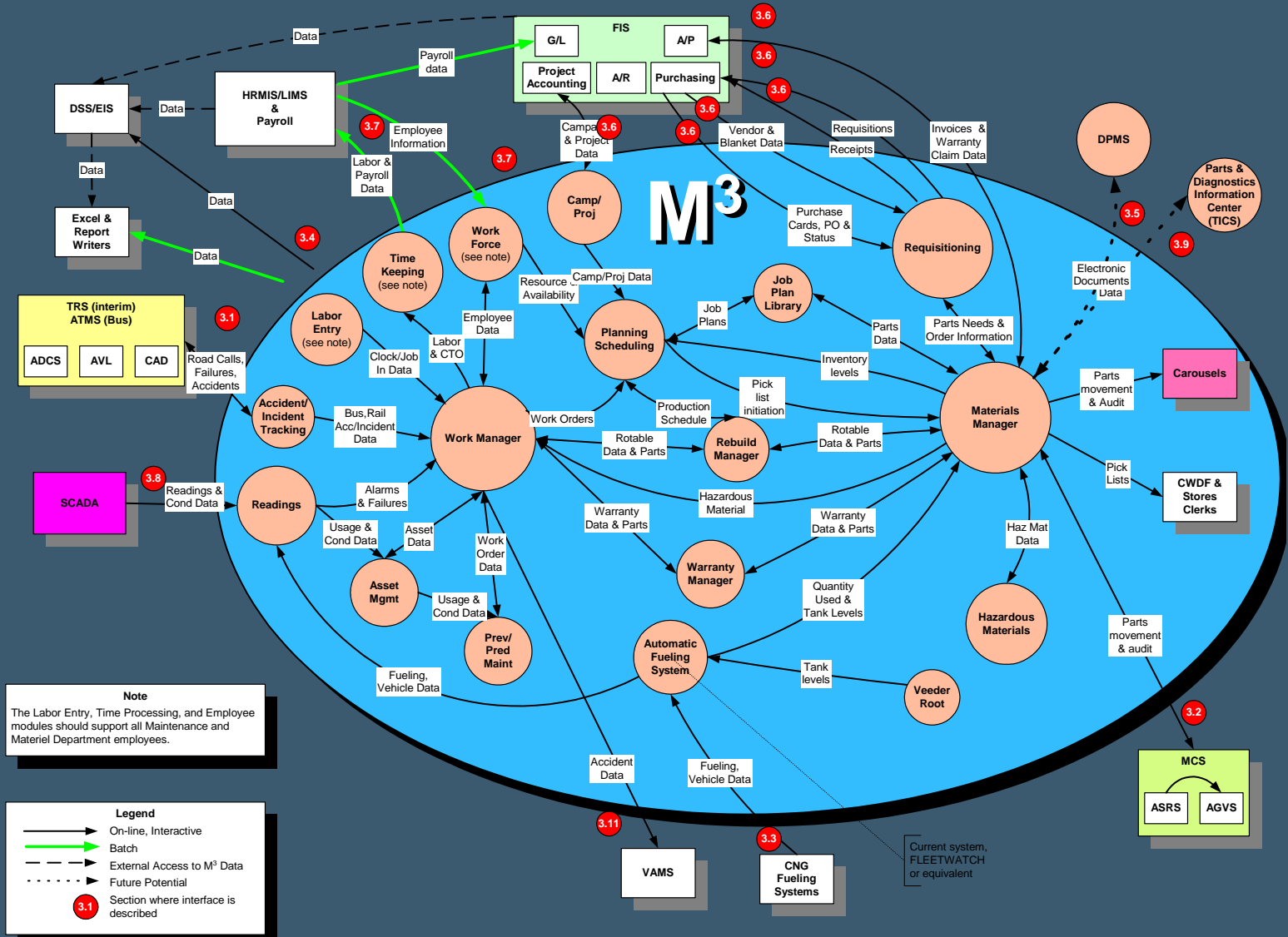
CONTRACT CASH FLOW

(Life of Contract)

19 JANUARY 2006

• Board Authorized	\$ 18,976,212
• Board Authorized	<u>\$ 1,900,000</u>
• Total Board Authorized	\$ 20,876,212
• Amount Paid (As of 2/25/05 Invoice)	<u>(\$ 20,420,466)</u> (Including Retention)
• Balance Board Authorized	\$ 455,746
• Board Authorized	<u>\$ 1,698,285</u>
• Balance Board Authorized	\$ 2,154,031
• Amount Paid (Through Nov 05)	<u>(\$ 2,011,692)</u> (Including Retention)
• Remaining Balance	\$ 142,339

M3 SYSTEM DIAGRAM





FACT SHEET

7 SEPTEMBER 2005

CONTRACT OVERVIEW

CONTRACT VALUE.....	\$22,574,497
“LIFE OF PROJECT” BUDGET....	\$32,700,000
TOTAL USERS.....	2,000
WORK LOCATIONS.....	29

PRIMARY ASSETS UNDER M3 MAINTENANCE

ATMS.....	2,400
Universal Fare System (UFS).....	5,400
40’/45’/60’ Buses.....	2,400
Rail Rolling Stock (865, 2020, 2000, 2550).....	227
Non-Revenue Vehicles.....	1,500
Wayside Equipment.....	20,000
Facilities.....	8,400

SUPPORT HARDWARE

Computer Terminals.....	1,100
Clock On/Off Terminals.....	85
Job On/Off Terminals.....	200
Fuel Data Collection Terminals.....	42
Handheld Devices.....	440

DATA RECORDS

Equipment Records.....	100,000
Annual Work Schedules.....	40,000
Annual Material Service Requests.....	500,000
Annual Work Orders.....	350,000
Annual Rebuild Orders.....	5,000
Timekeeping Transactions per Pay Period....	1,750,000
Timesheets per Pay Period.....	20,000

SYSTEM INTERFACES

- Advanced Transportation Management System (ATMS)
- Human Resources Management Information System (HR MIS)
- Labor Information Management System (LIMS)
- Payroll System
- Financial Information System (FIS)
- Technical Information Center System (TICS)
- Automated Storage and Retrieval System (ASRS)
- Fuel Management System (Fleet Watch)

LINES OF BUSINESS SUPPORTED

- 13 Bus Divisions
- 4 Rail Divisions
- Regional Rebuild Center
- Rail Operations Center
- Rail Wayside
- Facilities (Central, Rail; & Bus)
- Non-Revenue Vehicles
- Material

- First Spear Implementation of “Touch Point” Software for Remote Kiosk Workstation Capability
- First Spear Integration of an Existing Payroll System into their Timekeeping Module
- First Spear Implementation of a Forecasting Module
- First Spear Implementation of Work-Requested Module



ROAD CALLS

9 JUNE 2005

ROAD CALLS						
VMS						
Home Div.	Total Road Calls in VMS	Screened Chargeable Road Calls	Total Screened Road Calls	Mean Miles Between Screened Chargeable Road Calls	Mean Miles Between Total Screened Road Calls	Total Vehicles Miles (M3)
1	871	307	705	3,100	1,350	951,840
2	368	137	294	4,455	2,076	610,346
3	457	170	188	4,320	3,907	734,448
5	416	76	264	10,599	3,051	805,509
6	70	27	30	6,592	5,933	177,986
7	762	120	196	6,999	4,285	839,850
8	312	109	145	7,095	5,334	773,377
9	329	105	273	8,280	3,185	869,450
10	722	152	243	6,951	4,348	1,056,541
15	679	166	197	6,055	5,103	1,005,205
18	909	178	481	5,997	2,219	1,067,436
Total	5,895	1,547	3,016	5,748	2,948	8,891,987

M3																
Total Vehicles Miles (M3)	Home Div.	Total M3 Road Call Work Orders	Mean Miles Between Total M3 Road Calls	Number of "No Problem Found" or "Driver Caused" Road Calls	Percent (%) of "No Problem Found" or "Driver Caused" Road Calls	Number of Road Calls with Replacement Bus	Percent of Road Calls with Replacement Bus	FTA Major System Failures*	FTA Other System Failures	FTA Total System Failures	FTA Mean Miles Between Major System Failures	FTA Mean Miles Between Other System Failures	FTA Mean Miles Between Total System Failures	Number of Road Calls Handled by FET's	Number of Buses Assigned to the Division on the Last day of Month	Average of Road Calls Work Orders per Assigned Bus
951,840	1	975	976	196	20.10%	522	53.54	213	215	428	4,469	4,427	2,224	296	274	3.56
610,346	2	430	1,419	123	28.60%	216	50.23	113	95	208	5,401	6,425	2,934	141	205	2.10
734,448	3	490	1,499	104	21.22%	324	66.12	118	160	278	6,224	4,590	2,642	88	214	2.29
805,509	5	465	1,732	173	37.20%	237	50.97	113	121	234	7,128	6,657	3,442	140	244	1.91
177,986	6	118	1,508	60	50.85%	35	29.66	8	17	25	22,248	-	7,119	38	78	1.51
839,850	7	860	977	346	40.23%	374	43.49	112	121	233	7,499	6,941	3,605	173	262	3.28
773,377	8	378	2,046	77	20.37%	227	60.05	68	117	185	11,373	6,610	4,180	109	193	1.96
869,450	9	331	2,627	80	24.17%	238	71.90	68	102	170	12,786	8,524	5,114	42	208	1.59
1,056,541	10	792	1,334	418	52.78%	381	48.11	66	128	194	16,008	8,254	5,446	162	296	2.68
1,005,205	15	751	1,338	163	21.70%	405	53.93	99	236	335	10,154	4,259	3,001	219	268	2.80
1,067,436	18	889	1,201	369	41.51%	462	51.97	130	156	286	8,211	6,843	3,732	300	276	3.22
8,891,987	Total	6,479	1,372	2,109	32.55%	3,421	52.80	1,108	1,468	2,576	8,025	6,057	3,452	1,708	2,518	2.57

* FTA System Failures - Mechanical Road Calls did not complete the trip (with Bus Exchanged)



MATERIALS MANAGEMENT COMPARISON

12 JULY 2005

MMS	M³	IMPACT
Purchases Processed Weekly	Purchases Processed Daily	Reduced Cycle Time & Inventory Investment
Management Information Limited	Management Information Robust	Better & More Timely Decisions
Forecasts Based On Historical Demand	Forecasts Based On Future Demand	Reduced Inventory Cost & Improved Support
No Capability To Manage Backorders	Backorders Easily Managed & Issued In Priority Order	Minimizes Stock Outs, Better Customer Support





WARRANTY MANAGEMENT COMPARISON

11 AUGUST 2005

VMS	M³	Change/Benefit
Minimal Warranty Visibility (Field Repairs)	Complete Warranty Visibility (Work Order Attached To Warranty Claim)	Fleet Failure Rate Data Improved. Increased Labor And Parts Cost Recovery
Claims Info Lags Component Movement To Warranty Section	Claims Info Precedes Component Movement To Warranty Section	Better Component Control. Reduced Repair Cycle. Increased Warranty Recovery Based upon Electronic Work Order Info
Division Has Limited Visibility Into Warranty Process	Division Has Full Visibility Into Warranty Status	Increased Confidence And Participation In Warranty Process. Greater Warranty Recovery
No Warranty Linkage Between Component And Repair	Division Alerted To Component's Warranty Status	Increased Part's Recovery Cost Through Use Of Component Warranties.



SPEAR DELIVERABLES

- **System Acquisition Services**
 - Hardware, software
- **Implementation and Integration Services**
 - Hardware, S/W, Business Process, I/F, Data conversion, Training, Testing
 - Project Management, Documentation,
- **System Rollout Services**
- **Post Implementation Support Services**

M3 CLOSE OUT

CRITERIA

CRITERIA DEFINITION

Electronic
Data Conversion
1

Represents approved data conversion work for implementation phase

Interfaces
2

Represents approved interface / integration work for implementation phase

Implementation
3

Represents effective rollout of M3 applications, data conversion requirements, and interface/integration specifications.

Final
M3 Testing
4

Represents final debugging, error resolution and corrections to M3 Implementation
Represents practical use of M3

Post
Implementation
5

Represents services to augment the effective implementation of M3
Represents business unit acceptance of M3 implementation

M3 Contract
Closeout

Represents final contract closeout activities

